

**PUBLIC NOTICE US Army Corps** 

of Engineers ® **New England District** 

696 Virginia Road Concord, MA 01742-2751 Date: March 24, 2009

Comment Period Ends: April 24, 2009

File Number: NAE-2008-852

In Reply Refer To: William J. Mullen

Or by e-mail: William.J.Mullen@usace.army.mil

The District Engineer has received a permit application from the applicant below to conduct work in waters of the United States as described below.

### APPLICANT Town of Darien

ACTIVITY To construct a flood control project that prevents flooding at businesses along Heights Road in Darien, Connecticut up to the 100-year flood recurrence interval. Primary features include the construction of an additional culvert under the Metro-North railroad tracks, culverting of a 450-foot reach of a watercourse, and creation of a floodwater detention basin in Baker Park. A detailed description and plans of the activity are attached.

### WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in an unnamed tributary of Stony Brook in the reach from Heights Road to Baker Park in Darien, Connecticut. The proposed location on the USGS Norwalk South quadrangle sheet is at Lat 41 3.92' N Long 73 29.45' W.

### **AUTHORITY**

| Permits are required pursuant to:                                    |
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| Section 10 of the Rivers and Harbors Act of 1899                     |
| X Section 404 of the Clean Water Act                                 |
| Section 103 of the Marine Protection, Research and Sanctuaries Act). |
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The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other

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public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s)

The following authorizations have been applied for, or have been, or will be obtained:

- ( ) Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Bill Mullen at (978) 318-8559, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

For more information on the New England District Corps of Engineers programs, visit our website at <a href="http://www.nae.usace.army.mil">http://www.nae.usace.army.mil</a>.

# THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

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| 8058 or e-mail he portion of the Pul | Fer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-er at <a href="mailto:bettina.m.chaisson@usace.army.mil">bettina.m.chaisson@usace.army.mil</a> . You may also check here ( ) and return this blic Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 oncord, MA 01742-2751. |
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| NAME:<br>ADDRESS:                    |  |

### PROPOSED WORK AND PURPOSE

The work includes the discharge of fill material for the purpose of preventing flooding at businesses along Heights Road in Darien, Connecticut up to the 100-year flood recurrence interval. A total of 0.25 acres of wetlands/waters is proposed to be filled as part of the project at two locations in Darien including within Baker Park and in the vicinity of Maple Street and Relihan Road. Components of the flood control project include:

- 1. A new 60"-diameter reinforced concrete culvert to be constructed parallel to an existing 3' x 4' box culvert beneath Heights Road and the Metro-North railroad tracks. Both culverts will convey flow of the unnamed tributary to Stony Brook in that reach. The entrance of the new culvert will be located on the south side of Heights Road, where the drainage area is 140.5 acres. The new culvert will discharge to the existing 72" x 44" arched asphalt-coated corrugated metal pipe (ACCMP) that takes flows under Interstate I-95. No fill will be placed within jurisdictional waters or wetlands in conjunction with its construction.
- 2. Culverting of a 450' reach of the unnamed tributary to Stony Brook that passes through the yards of properties along Maple Street and Relihan Road. (Currently about a third of this reach is culverted). The 450' reach will consist of a 5'-high by 12'-wide box culvert (upstream) transitioning to two 4'-high by 7'-wide box culverts (downstream). This reach receives flow from the 72" x 44" arched ACCMP that conveys the flow of the unnamed tributary to Stony Brook under Interstate I-95. Fill will be placed within 0.07 acres of jurisdictional waters or wetlands in conjunction with its construction.
- 3. A concrete diversion structure to be constructed near the northwest corner of Baker Park (downstream of where the unnamed tributary to Stony Brook enters the park), where the drainage area is 176.8 acres. This diversion structure will carry the majority of the flow to the proposed detention basin (see item 4 below) via a 28'-long spillway, but will also allow a limited amount of flow to continue to the watercourse located along the western boundary of the park via a 6'-wide x 3'-high box culvert. Fill associated with this item is included in item 4 below.
- 4. A detention basin to be constructed in Baker Park to accommodate the increased flood flows that will be discharged from the Heights Road area as a result of the increased hydraulic capacity upstream (items 1 and 2 above). The detention basin will be excavated within the western and southern forested upland areas within the park, and will have a sinuous shape in order to minimize impacts to the wetlands at Baker Park (note that the unnamed tributary to Stony Brook historically flowed through these wetlands, but the watercourse was relocated long ago parallel to the park's western boundary). The 1.66 acre basin will be planted with a wetland seed mix. A concrete outlet structure will be constructed along with an earthen berm at the south end of the detention basin. Discharge rates downstream of the detention basin will remain at or below existing discharge rates and therefore existing flood potential in downstream reaches will remain substantially unchanged. Fill placed within jurisdictional areas within Baker Park for the detention basin, the concrete diversion structure, and riprap placed at the outlet of the Maple/Relihan culvert is 0.18 acres.

The work is described on the enclosed plans entitled "Stony Brook Tributary Flood Control Project" on 42 sheets, and dated "February 10, 2009."

Several project alternatives to storage of floodwaters in excavated uplands at Baker Park were considered. One alternative involved underground storage of excess floodwater storage in underground storage pipes constructed beneath the Metro-North railroad station parking area. One option included pumping of stormwater from

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Heights Road into the storage facility, another option didn't include pumping. This alternative and options could provide only 25-30 percent of the storage volume required, and had several other disadvantages. Storage was also considered under the Stop and Shop parking area located near Heights Road, but it was found to have similar shortcomings. Other alternatives considered included the construction of a flood protection barrier around the Heights Road businesses, and the dry floodproofing of buildings, but both were found to be impractical for a number of reasons. Another alternative involving the raising of the buildings along Heights Road above the elevation of anticipated floodwaters, but this would involve difficulties including the closure of the businesses for several months. Another alternative involves the purchase and demolition of the affected buildings along Heights Road. Although market value of the properties is approximately \$10 million, this may be a feasible alternative. Other alternatives studied involved various methods of proving floodwater storage at Baker Park. These included elimination of the existing ballfields at Baker Park and their replacement with an open detention basin, construction of a "closed" detention system under the existing ballfields, and floodwater storage within the wetlands at Baker Park. Alternatives for the conveyance of excess flows between Interstate I-95 and Baker Park were also investigated, but they are not discussed here.

Impacts to jurisdictional wetlands and waters cannot be avoided if a project to reduce flooding at businesses at Heights Road is to be implemented. The project has been designed to minimize impacts to wetlands. A net total of 0.68 acres of mitigation (enhanced/created) are being proposed in two offsite areas (one along the western portion of the Darien High School campus and one adjacent to Darien Town Hall) to offset the proposed impacts, with both areas within the Stony Brook watershed in close proximity to the impacted areas.

At the Darien High School site, mitigation will include wetland creation and watercourse enhancements within a tributary to Stony Brook (not the same unnamed tributary to Stony Brook that flows by Heights Avenue). The low-gradient, low functioning watercourse will be eliminated and a floodplain wetland area will be created by excavating the forest edge east of the watercourse. The area is designed for a meandering channel to form over time to encourage ecological production and diversity. Three wetland cells are proposed, each at a slightly lower elevation than the preceding one. Although 0.05 acres of watercourse would be eliminated, 0.42 acres of wetland would be created and 0.10 acres of wetland would be enhanced.

Wetland creation and watercourse enhancements are also proposed within Stony Brook proper, adjacent to the Darien Town Hall. The eastern stone-lined bank will be removed to create a vegetated bank that will enhance the diversity of wildlife opportunities. Small riverine wetland areas will be created in two locations along the stream reach to foster development of a floodplain wetland. Three rock vanes will also be constructed to enhance fish habitat. This mitigation involves 0.09 acres of streambank enhancement, 0.10 acres of wetland enhancement, and 0.02 acres of wetlands created.

### LIST OF DRAWINGS

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DRAWING PREPARED BY:

DRAWING NAME:

LIST OF DRAWINGS

WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

DRAWING NUMBER:

1 OF 42

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net PROJECT NAME:

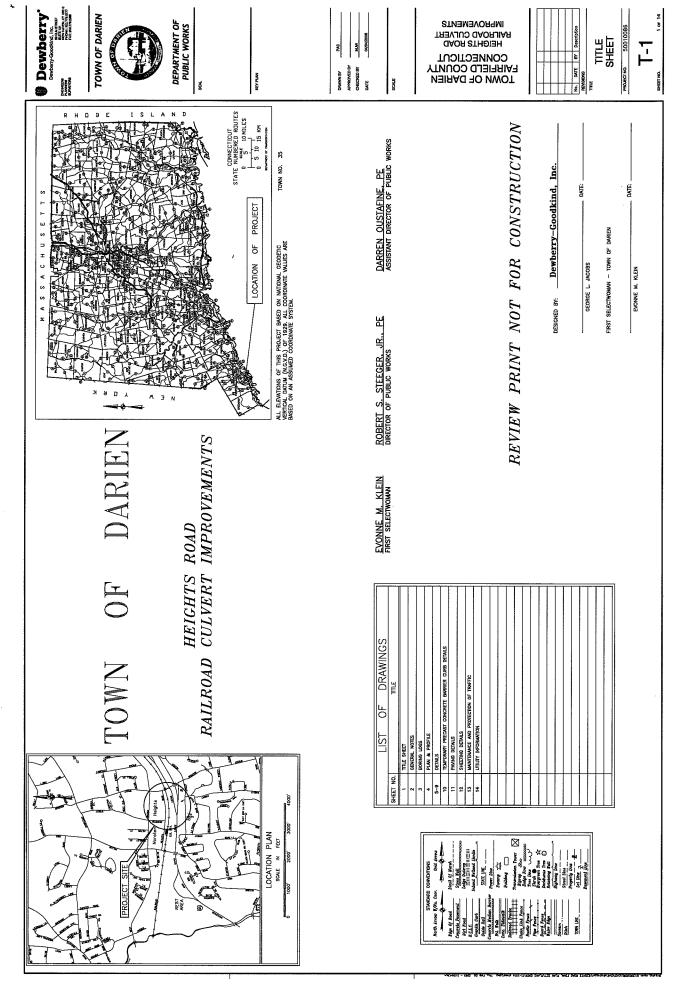
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



#### **GENERAL NOTES**

#### CONSTRUCTION NOTES:

- CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION; DESCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATYELY.
- 2.SURVEY AND TOPOGRAPHIC DATA ARE FROM 2004 AERIAL PHOTOGRAPHY AND TOPOGRAPHIC MAPPING.
- 3.THE ACTUAL LOCATION OF UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR. STATE LAW REQUIRES 48 HOUR NOTIFICATION OF "CALL BEFORE YOU DIG" AT 1-800-922-4455 BEFORE EXCAVATING.
- 4.EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PLACED AS SHOWN ON PLANS PRIOR TO THE START OF THE CONSTRUCTION.
- 5.SPECIFICATION SHALL COMPLY WITH CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM B16 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2006 AND SPECIAL PROVISIONS.
- 6.DESIGN SPECIFICATION: STANDARD SPECIFICATION FOR HIGHWAY BRIDGES (AASHTO-1992), WITH INTERIM SPECIFICATIONS UP TO AND INCLUDING 1994, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL (2003).
- 7.ALL DRAINAGE STRUCTURES SHALL BE DESIGNED TO WITHSTAND AN HS 20-44 LIVE LOAD.
- 8.EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1"X 1" UNLESS DIMENSIONED OTHERWISE.
- 9.CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLAN WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 10.WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

#### EXISTING CULVERT:

- 1. WHERE SHOWN ON THE PLANS, PORTIONS OF THE EXISTING STONE CULVERT SHALL BE REMOVED. PAYMENT FOR REMOVAL OF THE EXISTING STONE CULVERT WILL BE MADE UNDER ITEM 0974001 REMOVAL OF EXISTING MASONRY. WHERE THE EXISTING CULVERT TIES INTO THE NEW PROPOSED BOX CULVERTS JOINTS SHALL BE MADE WATERTIGHT AND MEET THE EXATISFACTION OF THE ENGINEER. THERE WILL BE NO SEPARATE PAYMENT FOR THE CONSTRUCTION OF THE WATERTIGHT CONNECTIONS TO THE NEW BOX CULVERTS, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE OF THE PROPOSED BOX CULVERTS.
- 2.AN ACTIVE SANITARY SEWER IS LOCATED INSIDE THE EXISTING STONE CULVERT AND IS REQUIRED TO BE MODIFIED FOR THE INSTALLATION OF THE PROPOSED BOX CULVERT AND BOX SECTIONS. SEE NOTE 1 UNDER "EXISTING SANITARY SEWER."

#### MAINTENANCE & PROTECTION OF TRAFFIC:

- 1. PEDESTRIAN ACCESS FROM ALL PORTIONS OF THE RAILROAD STATION PARKING LOTS TO THE RAILROAD STATION PLATFORM SHALL BE MAINTAINED. PEDESTRIAN WALKWAYS SHALL BE A MINIMUM OF 6 FEET WIDE AND DELINEATED BY TEMPORARY CHAIN LINK FENCE.
- 2. VEHICULAR ACCESS TO PARKING LOTS AND ROADWAYS SHALL BE MAINTAINED. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A MAINTENANCE AND PROTECTION OF TRAFFIC PLAN SHOWING THE ANTICIPATED IMPACT OF HIS OPERATIONS TO PUBLIC VEHICULAR TRAFFIC.
- NO ACTIVITY WHATSOEVER IS PERMITTED AT GRADE BETWEEN THE CHAIN LINK FENCE BORDERING THE NORTH AND SOUTH SIDES OF THE TRACK BEDS. THE CONTRACTOR'S OPERATIONS SHALL CONFORM TO ALL RAILROAD REQUIREMENTS.

#### EXISTING SANITARY SEWER:

- 1. AN ACTIVE SANITARY SEWER IS LOCATED INSIDE THE EXISTING STONE CULVERT. THE DUCTILE IRON PIPE ENTERS THE CULVERT ON THE SOUTH SIDE OF HEIGHTS ROAD AND EXITS THE STONE CULVERT JUST PRIOR TO THE CATCH BASIN ON THE 1-95 SOUTHBOUND ENTRANCE RAMP. THE SANITARY SEWER IS LOCATED ALONG THE WEST WALL OF THE STONE CULVERT.
- 2.4 SANITARY SEWER LATERAL CROSSES THE STORM DRAINAGE IN THE VICINITY OF THE I-95 SOUTHBOUND ENTRANCE RAMP. THE LOCATION SHOWN ON THE PLAN IS APPROXIMATE AND THE ELEVATION IS NOT KNOWN.
- 3. THE CONTRACTOR SHALL LOCATE AND PROTECT THE SANITARY SEWER AND ALL SEWER LATERALS DURING CONSTRUCTION.
- 4.THE CONTRACTOR IS ADVISED THAT WORK IS REQUIRED ON THE DIP SANITARY SEWER AND EXISTING FLOWS SHALL BE MAINTAINED. SANITARY SEWER FLOWS SHALL BE BYPASSED FROM THE UPSTREAM MANHOLE AT THE INTERSECTION OF HEIGHTS ROAD AND EDGERTON STREET TO THE DOWNSTREAM MANHOLE AT THE SOUTHBOUND ENTRANCE RAMP TO 195. THERE WILL BE NO SEPARATE PAYMENT FOR BYPASSING FLOWS THE COST OF WHICH SHALL BE INCLUDED IN THE COST OF THE SANITARY SEWER ITEMS (SEE ITEM#1401054A— HANDLING SEWAGE FLOWS).
- 5.THE PAY ITEM FOR THE INSTALLATION OF THE SANITARY SEWER (1401242A) INCLUDES ALL WORK AND MATERIALS ASSOCIATED WITH THE SEWER INSTALLATION, WITH THE EXCEPTION OF ITEM 0714038 SOLDIER PILES AND LAGGING.

#### UTILITIES:

- THE CONTRACTOR MUST BE VIGILANT TO THE OVERHEAD UTILITIES WHICH INCLUDE SEVERAL HIGH TENSION POWER TRANSMISSION LINES, RAILROAD CATENARY LINES AND POWER DISTRIBUTION CABLES ON UTILITY POLES.
- 2. BURIED PARKING LOT LIGHTING CONDUITS MUST BE LOCATED AND PROTECTED BY THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR LOCATING AND PROTECTION OF THE BURIED CONDUITS. DAMAGE TO BURIED CONDUITS AND/OR POWER LINES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENCE.
- 3. PLANS PROVIDED BY NORTHEAST UTILITIES ARE INCLUDED FOR INFORMATION ONLY. THE CONTRACTOR MUST VERIFY ALL INFORMATION REGARDING THE HEIGHTS OF WIRES AND THE DEPTH OF ANY FOUNDATIONS.

#### METRO NORTH RAILROAD:

1. SPECIFICATIONS FOR PIPELINE OCCUPANCY OF METRO—NORTH COMMUTER RAILROAD COMPANY PROPERTY SHALL APPLY. THE SPECIFICATIONS APPLY TO THE DESIGN AND CONSTRUCTION OF PIPELINES CARRYING FLAMMABLE AND NON—FLAMMABLE SUBSTANCES AND CASINGS OVER 4—INCHES CONTAINING WIRES AND CABLES, UNDER, ACROSS AND ALONG RAILROAD PROPERTY AND FACILITIES AND TRACKS OWNED BY OTHERS OVER WHICH THE RAILROAD OPERATES ITS EQUIPMENT.

#### EXISTING GROUND AND INVERT INFORMATION

- THE CONTRACTOR SHALL OBTAIN ELEVATIONS OF EXISTING GROUND AT ALL LOCATIONS WHERE PROPOSED AND EXISTING CATCH BASINS AND MANHOLES ARE TO BE INSTALLED AND/OR MODIFIED TO MATCH EXISTING GRADE. EXISTING GROUND ELEVATIONS SHALL ALSO BE OBTAINED BY THE CONTRACTOR ON EXISTING GROUND SURFACES PRIOR TO EXCAVATION IN ORDER FOR AREAS TO BE RESTORED TO THE ORIGINAL GHRADES AND MATCH EXISTING PAVEMENTS.
- 2.INVERT ELEVATIONS OF EXISTING SANITARY AND STORM SEWERS SHALL BE OBTAINED BY THE CONTRACTOR AFTER EXISTING PIPE IS EXPOSED WHERE NEW CONNECTIONS ARE TO BE MADE OR EXISTING CONNECTIONS ARE TO BE MODIFIED: THE CONTRACTOR SHALL UTILIZE THIS INFORMATION TO ESTABLISH THE SLOPE OF PROPOSED PIPE AND CULVERTS. SURVEY INFORMATION OBTAINED AND GRADES PROPOSED FOR PROPOSED CULVERTS AND PIPING SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 3. THERE WILL BE NO SEPARATE PAYMENT FOR OBTAINING GROUND AND INVERT ELEVATIONS OR ESTABLISHING GRADES FOR THE PROPOSED PIPE INSTALLATIONS, THE COST OF WHICH SHALL BE INCLUDED IN ASSOCIATED ITEMS.

-- PART 1 OF 2 --



Dewberry-Goodkind, Inc.

PLANNERS

59 ELM STREET SUITE 101 NEW HAVEN, CT 08510 PHONE: 203.778.2277

#### TOWN OF DARIEN



# DEPARTMENT OF PUBLIC WORKS

SFAI

KEY PLAN

SCALE

TOWN OF DARIEN
FAIRFIELD COUNTY
CONNECTICUT
HEIGHTS ROAD
RAILROAD CULVERT
IMPROVEMENTS

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| No.      | DATE | BY | Description |

TITLE

GENERAL NOTES

PROJECT NO. 50010086

**G**-1

SHEET NO.

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#### GENERAL NOTES (CONT.)

#### TEST PITS (ITEM 0202452)

TEST PITS ARE ANTICIPATED ON HEIGHTS ROAD TO LOCATE THE EXISTING WATER MAIN, AND ADJACENT TO THE I-95 ON-RAMP TO LOCATE THE EXISTING SANITARY SEWER LATERAL.

#### SEDIMENTATION CONTROL SYSTEM (ITEM 0219001)

THE LOCATIONS WHERE SEDIMENTATION CONTROL SYSTEMS SHALL BE INSTALLED ARE GENERALLY ALONG THE SLOPE ADJACENT TO 1-95 WHERE THE CONNECTIONS TO THE EXISTING DRAINAGE AND SANITARY SEWER SYSTEMS WILL BE MADE. SEDIMENTATION CONTROL SYSTEMS SHALL ALSO BE INSTALLED ALONG THE SLOPE ON THE SOUTH SIDE OF HEIGHTS ROAD ADJACENT TO THE SIDEWALK. THE EXACT LOCATIONS AND LIMITS WILL BE DETERMINED BY THE ENGINEER OR HIS/HER FIELD REPRESENTATIVE.

#### CONCRETE SIDEWALK (ITEM 0921001)

CONCRETE SIDEWALK, WHICH INCLUDES A MONOLITHICALLY POURED CONCRETE CURB, WILL BE INSTALLED ON HEIGHTS ROAD IN THE VICINITY OF THE "C" CATCH BASIN — DOUBLE GRATE, TYPE II AT THE ENTRANCE TO STOP & SHOP. THE NEW SIDEWALK WILL REPLACE THE EXISTING SIDEWALK DISTURBED BY THE INSTALLATION OF THE CATCH BASIN AND ASSOCIATED DRAINAGE. THE ENTIRE "FLAG" (SIDEWALK SECTION BETWEEN JOINTS) SHALL BE REPLACED.

CONCRETE SIDEWALK (WITH CURB) WILL ALSO BE INSTALLED ON THE SOUTH SIDE OF HEIGHTS ROAD WHERE REQUIRED DUE TO INSTALLATION OF THE PROPOSED STORM DRAINAGE AND MODIFICATIONS TO THE SANITARY SEWER SYSTEM.

THE LIMITS OF SIDEWALK REPLACEMENT WILL BE DETERMINED BY THE ENGINEER OR HIS/HER FIELD REPRESENTATIVE. THERE WILL BE NO PAYMENT FOR SIDEWALKS OUTSIDE OF THE LIMITS OF CONTRACT WORK THAT MUST BE REPLACE DUE TO DAMAGE BY THE CONTRACTOR.

#### EROSION CONTROL MATTING - TYPE D (ITEM 0950039)

EROSION CONTROL MATTING WILL BE INSTALLED ON THE SLOPE BETWEEN THE SOUTH RAILROAD PARKING LOT ANT THE 1-95 ON-RAMP. THE LIMITS FOR THIS ITEM WILL GENERALLY FOLLOW THE "SOLDIER PILING AND LAGGING" LIMITS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

#### HOT-APPLIED PAVEMENT MARKINGS (ITEMS 1209114 & 1209124)

THE ITEM HOT-APPLIED "WHITE" PAVEMENT MARKINGS SHALL BE USED TO DESIGNATE THE PARKING SPACES DISTURBED BY THE CONSTRUCTION IN THE RAILROAD PARKING LOTS. THE LIMITS SHALL GENERALLY CONFORM TO THE PERMANENT PAVEMENT LIMITS IN THE TWO RAILROAD PARKING AREAS,

HOT-APPLIED "YELLOW" PAVEMENT MARKINGS SHALL BE USED TO RE-STRIPE THE CENTERLINE ON HEIGHTS THROUGH THE LIMITS OF CONSTRUCTION.

# TEMPORARY AND PERMANENT PAVEMENT REPAIRS (ITEMS 0406002 & 0406011)

1. TEMPORARY PAVEMENT REPAIRS ARE ANTICIPATED TO BE REQUIRED IN THE FOLLOWING LOCATIONS:

- A. I-95 ON-RAMP FOR SANITARY SEWER TRENCH REPAIR (ITEMS 1405058 & 1405070)

  B. NORTH RAILROAD PARKING LOT FROM TEMPORARY PRECAST BARRIER CURB TO THE NORTH LIMIT OF THE PARKING LOT.

  C.HEIGHTS ROAD, FROM THE TEMPORARY PRECAST BARRIER CURB TO THE NORTH FOR PAVEMENT REPAIR AFTER PIPE INSTALLATION AND REMOVAL OF THE EXISTING STONE CULVERT.

  D.STOP & SHOP DRIVEWAY AFTER INSTALLATION OF STORM DRAINAGE
- 2.PERMANENT PAVEMENT REPAIRS WILL BE PAID FOR UNDER THE ITEM 0304001 PROCESSED AGGREGATE BASE AND ITEM 0405011 BITUMINOUS CONCRETE CLASS I, WITH THE EXCEPTION OF THE SANITARY SEWER TRENCH REPAIR ON THE I-95 ON-FRAMP, THE SEWER REPAIR ON THE RAMP WILL BE PAID UNDER ITEM 1405068. THE PAY LIMITS FOR PERMANENT PAVEMENT REPAIRS ARE ESTIMATED AS FOLLOWS:

  - A. SOUTH RAILROAD PARKING AREA 3' AROUND THE JACKING PIT AND 10' FROM THE CENTERLINE OF THE PROPOSED DRAINAGE ON EACH SIDE OF THE PIPE EXCAVATION.

    B.NORTH RAILROAD PARKING AREA 3' AROUND THE RECEIVING PIT AND 10' FROM THE CENTERLINE OF THE PROPOSED DRAINAGE ON EACH SIDE OF THE PIPE EXCAVATION.

    C.HEIGHTS ROAD THE ENTIRE WIDTH OF HEIGHTS ROAD, 40' EAST OF THE BASELINE AND 30' WEST OF THE BASELINE (MEASURED ALONG THE CENTERLINE OF HEIGHTS ROAD.)

    D.STOP & SHOP DRIVEWAY PERPENDICULAR TO THE STREET LINE OF HEIGHTS ROAD THROUGH A POINT AT BASELINE STATION 9+50, APPROXIMATE 20' TO A POINT BEYOND THE PROPOSED CATCH BASIN, THEN PARALLEL TO THE STREET LINE OF HEIGHTS ROAD EASTERLY TO THE EXISTING CURB



PLANNERS

### TOWN OF DARIEN



### DEPARTMENT OF **PUBLIC WORKS**

SEAL

KEY PLAN

PAS APPROVED BY MJW DATE 04/04/2006

SCALE

RAILROAD CULVER IMPROVEMENTS **HEIGHTS ROAD** CONNECTIC FAIRFIELD N N O

| No.  | DATE  | BY | Description |  |
|------|-------|----|-------------|--|
| REVI | SIONS |    |             |  |

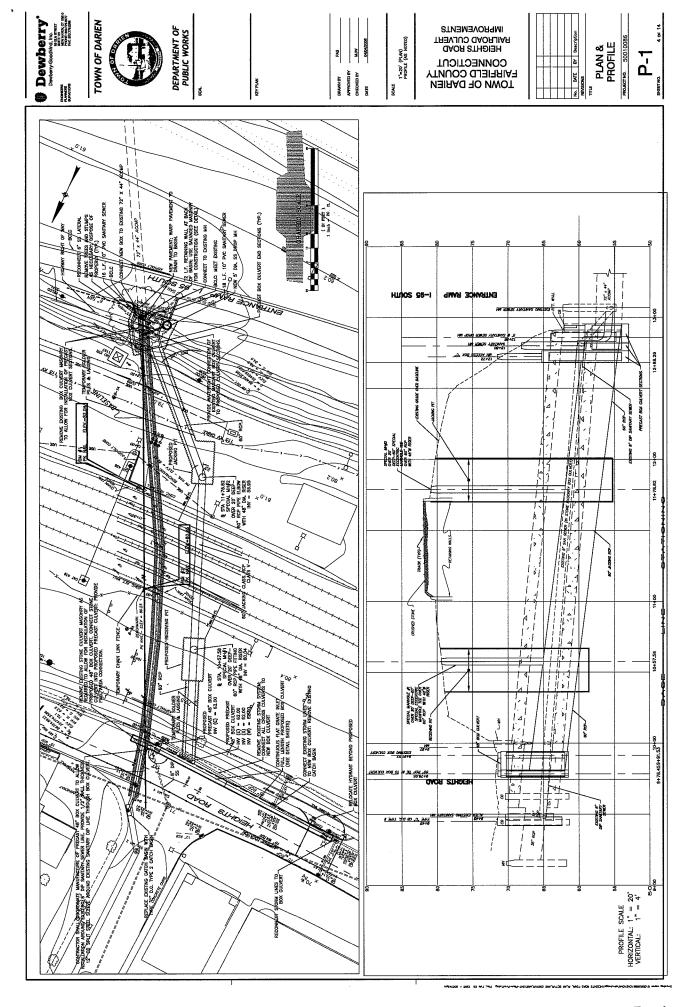
TITLE

GENERAL NOTES

50010086 PROJECT NO.

SHEET NO.

2 of 14



Dewberry Downson, Bonden Bonde TOWN OF DARIEN НЕІӨНТЅ ROAD RAILAOAD CULVERT IMPROVEMENTS DEPARTMENT OF PUBLIC WORKS 50010086 DETAILS 7 TOWN OF DARIEN COUNTY CONNECTICUT No. DATE BY PLANESS

.3 Install box sections; wake watertight connections at stone wasonry culivert, at 60° rcp, and at 72° x 44° accmp.

1.4 INSTALL STEEL SLENED B" DIP SANITARY SEWER LINE THROUGH BOX SECTION "C" TO SANITARY SEWER MH ON BOX SECTION "B",

1.2 BY-PASS STORM FLOWS. AT THE DND OF EACH WORK DAY WHEN THE BY-PASS IS IN F THE PROPOSED DIMWING SHOULD BE INDIGENTICLED TO ALLINE A LANGEN STORM ENDING PASS TO THE DESTING 27244 ACCUP. THE DEPOSED EXCANDON SHALL BE PROTECTED PREVENT SEDMENT FROM ENTERING THE DISTING DRAINAGE SYSTEM.

or attenately nistall a temponary gravity lake through the 60° RCP to the sanitar Semen wh in the 1–85 eathrance drive.

FIGURE SOUTHER YEAR OF DETRING AUGUST BY OLD CLUET WESSERY TO RESERVE THE ACCOMMON PRESERVED PRESERVE TOWN STETCHAS BURNERS OFFICE WASHING LONGTON TO ACCOUNT FIFTHER STEEL TOWN STANKEL A TREMPORT PRIVASE PRESERVE THE WARRING STORMEN STONE CULVERT ON THE DESTRING TAXAFF, ACCOUNT OF THE SOUTH WARRING STORMENTS THE "FRANCED TO ACCOUNT SEERS FAMILY BEST OFFI BURNER AND STROKES CANALTY WAST BE "FRANCED." TO ACCOUNT SEERS FAMILY BEST OFFI BURNERS.

PHASE 3 SOUTH SIDE (1-95 ENTRANCE RAMP)

2.3 BY-PASS SANITARY SEWER FLOWS.

PROPOSED BROWNER SANITARY MAI BASELINE STA. 12488± AT SOUTH SIDE (LOCATION OF PROPOSED DROP SSHIP), INSTALL 18 LF 10" PAC FROM TEMPORARY MAI TO EXISTING SAWINK SPARCE HIS IN 1"-SE ETITANCE RAUP. 12. NSTALL SWITARY SENEX BRAGS, PLUC B" DIP SS LINE IN SANTIARY SENEX MH. IN HEDRITA BOOD, PLUR FROM UPSTREAM, SMITARY SENEX HE IN HINGRIST ROLD TO DANISTIEMA WANIOLE IN 1—95 BATRANCE RAMP, UTILIZE THE 60" ROP TO RUH BRYASS LINE

NOTE, DIRRO, ALL PHASES OF CORSPECTION NO CONSPECTION WATER SANEL BE WASHERD INTO THE DESTINE OR PROPOSED CLUVERTS LALESS THE WATER IS TREATED, LEAN WATER FOR OLL SEDILARLY, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING FOR THE SATISTACTION CLEANING. OF STORM I DONS.

SUGGESTED SEQUENCE

PHASE 1 JACK PIPE

MATER HANDLING — SUGGESTED WATER HANDLING SEQUENCE IS INCLUDED IN THE SUGGESTED SEQUENCE.

WATER HANDLING NOTES

I.1, JACK 66" DHAFTER R.C.R. UNGER ROLLEGOD TRUCKS, INSTILL SPECIAL LAWARGES TO GRODE STATUL ERAUMEN TO BASCILLES STATUL ERAUMEN STATUL TRUCKS TO BASCILLES STATUL TRUCKS AND STORT STATUL STATUL TRUCKS TO BASCILLES STATUL TRUCKS AND STATUL TRUCKS AND STATUL TRUCKS AND STATUL PLANE HOW DISC STATUL PLANE PLANE HOW DISC STATUL PLANE PLANE HOW DISC STATUL PLANE PLA

.2 DO NOT DISTURB EXISTING STORM SEWER SYSTEM IN HEIGHTS ROAD; KEEP SYSTEM FUNCTIONING (MASONRY BOX CULVERT TO BE KEPT IN SERVICE).

PHASE 2 BYPASS SANITARY SEWER

NISTAL CONCRETE INVERT IN BOX SECTIONS; BACKFILL AND COMPACT BOX SECTIONS REMOVE. SOLDER PILES AND LAGGING.

A.6 REMOVE SANITARY SEWER BY-PASS.

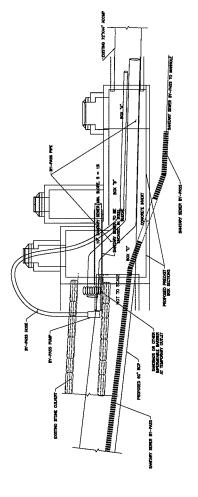
3.8 INSTALL FRAME AND GRATE ON CB ON BOX SECTION "A"; INSTALL TEMPORARY PAYEMENT.

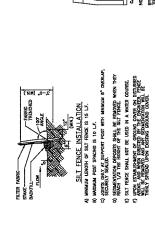
1, COORDINATE THE RELOCATION OF THE EXCERNING HYDRAIT AT HEIDHTIS ROAD STA, 8470± TO WINN LICENTS, NSTALL TELECATION WORK BY OTHERS), NSTALL TELECATION WORK BY OTHERS), NSTALL TELECATION WORK BY OTHERS), NSTALL TELECATION WORK BY OTHERS).

MASE 4 NORTH SIDE (HEIGHTS ROAD)

A, NEXILL STORM WATER BY—BASS FROM 15" REP AT GS AT STA, 64504 HIDRITS ROUD BLUCKEDOD OF REP, WARRAN STREAMMER TAWNER REPORTED COMMENT UNES, PICK IP PARKING LOT GE. THE 2—FEW DESSING TARGE TO ACCOMMONNET. FIRM AT A MAINLAN.

N. BISTAL, SWITMEY SENER DROP MANHOLE AT BASELINE STA. 12+86±; CONNECT THE PREVIOUSLY MATHLED MONESTERAL IT OF CE (SEE Z. PACE)F, READY. THEOPRAY MANHOLE CONNECTE SWITMEY SENER PPE BAYLLATON BY NESTLATING 18 L° 10" PAC FROM SSM ON BOX SECTION "B" TO SS DROP MH, CONSTRUCT INFERTS IN MANHOLES.





4. HETALL WESTELLY PORTION OF 46" PREDJOT BOX CALVERT: NETALL SPEXULTY WANNELFLEED BOX CALVERT: NETALL REMAINER STEELS, SLEEPE, ON 6" DIP SAVRÍAN SERVEY BOX PROLIVETY, NESTLE, REMAINER SERVE SLEEPE, ON 6" DIP SAVRÍAN SERVEY BOX PROLIVETY, NESTLE, REMAINER MAN SAVRIANT ONNECTIONS TO WASSIMP BOX CALVERTY MAN OKNIONE PERETAININGS THE SAVRIANT STREET. .5. Install rejainend 48° box claners sections to east (Heights Road Sta. 64-804), wax instendent connections for george claurents and 60° for. Install temporary parending rejacor. Rejaine 80° for. Install temporary parending rejaines of the clause of th

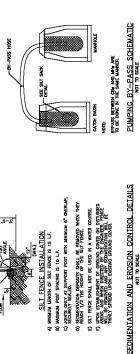
.3. REMOKE STONE WASONRY CLIVERT AT BASELINE STA. 8+78± TO STA. 8+91±; PROTECT EXISTING 8" DIP SANITARY SEWER LINE.

I.6. INSTALL THPE "C" D.G. THPE 2 CATCH BASIN AT BASEINE STA, 89+46±, INSTALL TEMPORAR PAYABLE, MAINTAN STANKARTER FLOW BY BY-PASS PLUINNG, THE 2-YEAR DESON FLOW BY THE ENGINE ON R.C.P. IS 22.5 CFS. PULHPS AND STORAGE CAPACITY MIST BE PROVIDED INCOMMENDATE THIS FLOW AT A MINIMUM.

?? INSTALL CONORETE INVEXT IN 48" PRECAST BOX CULVERT; INSTALL REINFORCED CONORETE RISER WITH CB FRAME SUPPORTS AND CB FRAMES, INSTALL TEMPORARY PANEMENT.

4.8 REJAOVE STORM WATER BY-PASS.

PHASE 5 SOUTH SIDE



1.1. INSTALL SIDEWALK WITH MONOLITHIC CURB AT HEIGHTS ROAD, INSTALL SIDEWALK AT DOUBLE ORNIE CB.

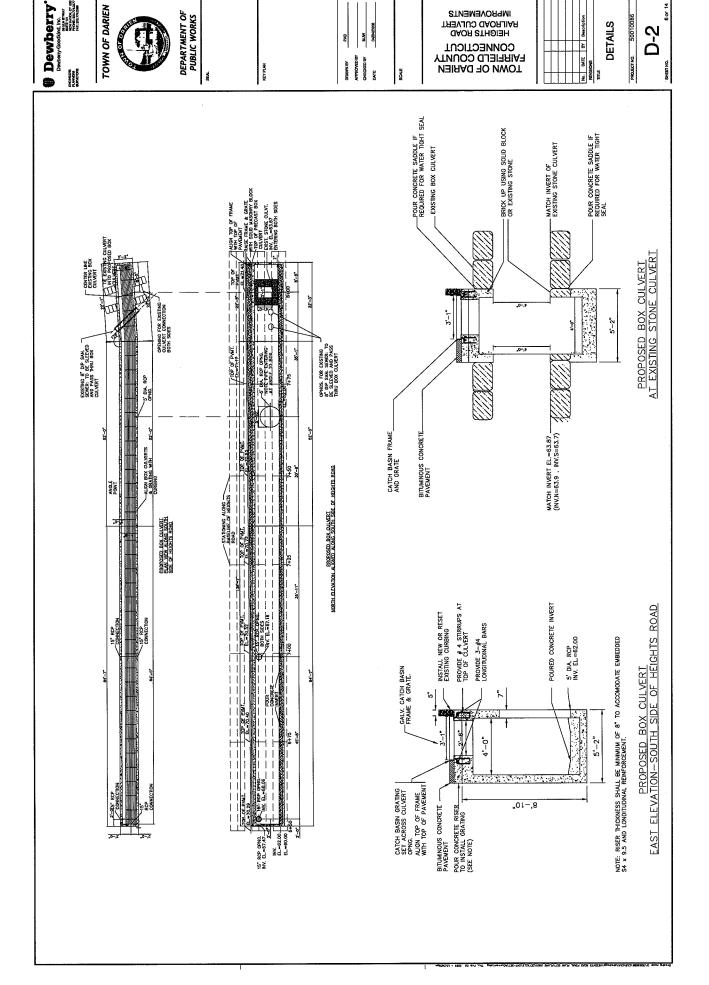
PHASE B NORTH SIDE

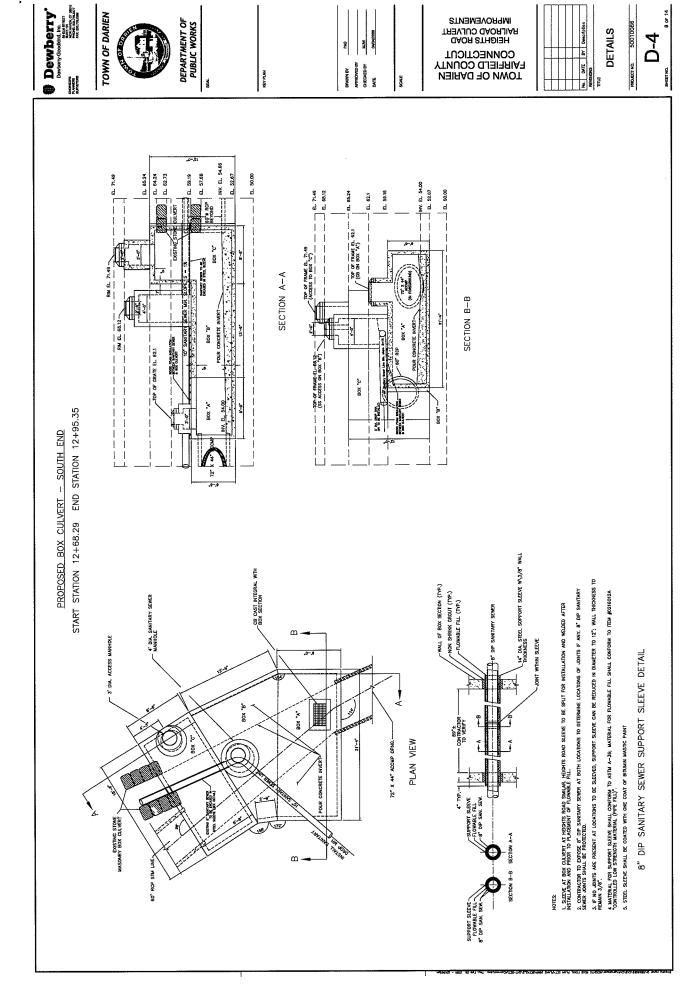
5.2 remoye tejporayy paalasti and nistal perianent paabient. Instal BCLC, Place Topsoil, Landscaping and aucch.

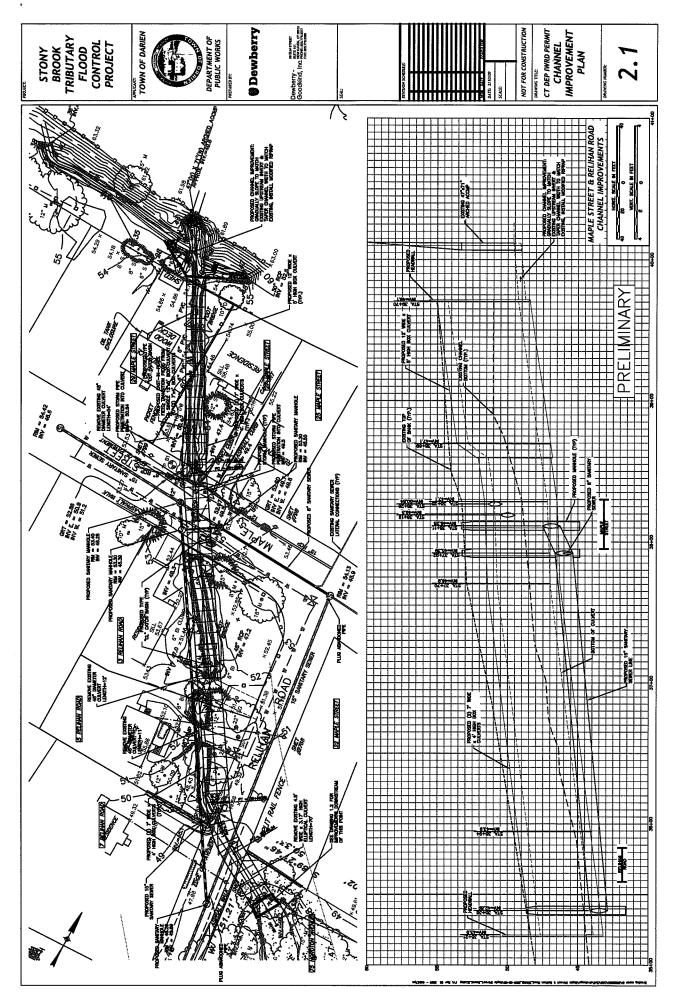
INSTALL MASONRY RETAINING WALL BEHIND CATCHBASIN ON SOUTH SIDE, BASE LINE STA. 12+92±.

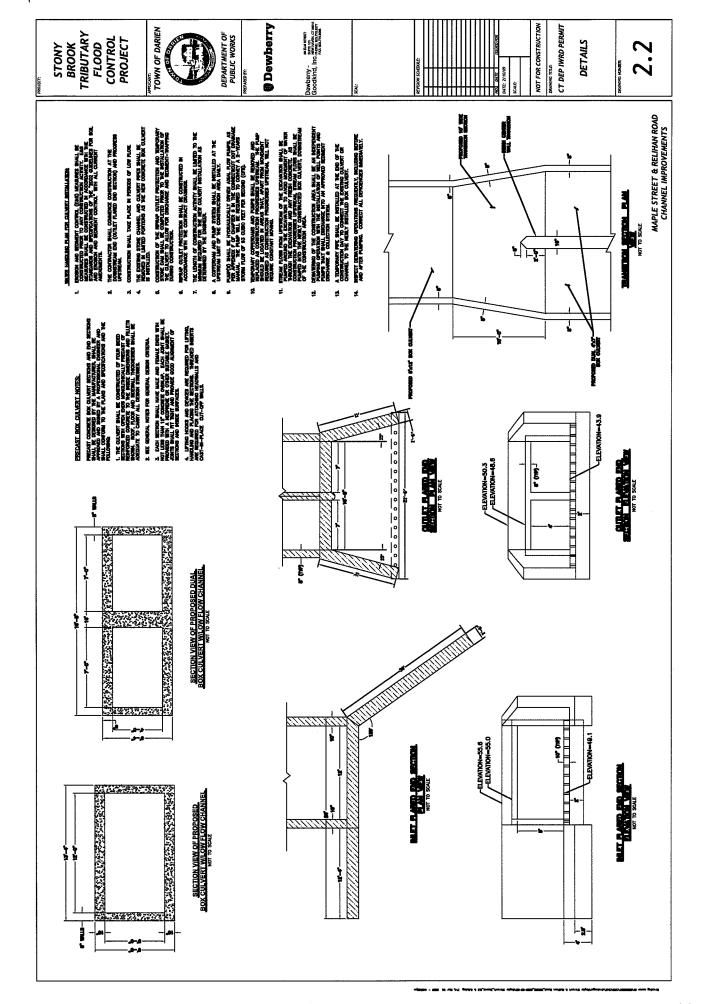
1.2 remone teleoraky panement and install perimanent panement, warp panement for Positive Drainage to basin Grates.

1.3 PLACE TOPSOIL, LANDSCAPE AND MULCH.









APRIL 1 THROUGH JUNE 1 AUGUST 15 THROUGH SEPTEMBER 1

WITH THE EXCEPTION OF CROWN VETCH, THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS.

#### SEEDING

- 1. THE SEED MOCTURE SHALL CONFORM TO CONNDOT FORM 816, SECTION M.13..

- IT CRACK SEEDING CAN BE USED, FROST CRACK SEEDING BE DONE IN LATE WINTER OR EARLY SPRING, SUTFABLE HER CONDITIONS ARE FREEZING HORITS AND THAWING DA LITTLE OR NO SNOW COVER, SEEDING RATES MUST BE EASED 10 PERCENT WHEN USING THIS METHOD.
- INCREASED TO PERCENT WHICH USING THIS METHOD.

  IMPRIANCE APPLICATION (HYDROSEDHIN), IS A SURFASE METHOD FOR USE IN CHETUAL, ANDERS, WHICH IMPROSEDHING, A SETTINGED SECONDARY AND ASSESSED TO SECONDARY AND ASSESSED TO SECONDARY AND ASSESSED TO SECONDARY AND ASSESSED THAN SO INCREMENTATION OF DEBANGE SURFACE STATES MATERIAL SECONDARY AND ASSESSED THAN SO INCREMENTATION OF THE MATERIAL SECONDARY AND ASSESSED THAN SO INCREMENTATION OF THE SECONDARY AND ASSESSED THAN SO INCREMENTATION OF THE USE OF THE REPORT AND ASSESSED THAN SO INCREMENTATION OF THE WORLD STANDARY AND ASSESSED THAN SO INCREMENT ASSESSED.
- IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURES TO PROTECT THE STE AND DELAY SEEDING UNITL THE NEXT RECOMMENDED SEEDING PERIOD.

#### L TEMPORARY VEGETATIVE COVER

- INSTALLATION REQUIREMENTS
  - SITE PREPARATION

    (1) SITE PREPARATION SHOULD BE CONDUCTED IN ACCORDANCE WITH THE
    MESSURE FOR LAND GRADING.
- (1) APPLY LIMESTONE AND FERTILIZER IN ACCORDANCE WITH PROCE IN TOPSOLING SECTION.
- IN ITEROGRAM

  (1) SEEDING

  (2) SEEDING

  (3) SEET SEED FROM SPECEFARIONS.

  (2) WHERE THE SOL, MAS BEEN COMPARTED BY CONSTRUCTION OPERATIONS

  (2) WHERE THE SOL, MAS BEEN COMPARTED BY CONSTRUCTION OPERATIONS

  (3) WHERE THE SOLD HAS BEEN COMPARTED BY CONSTRUCTION OPERATIONS

  (3) JAPAN SEED/JABACH UNFORMAN AS INDICATED IN PERMANENT VECETAITME

  COMPARTS SEED/JABACH UNFORMAN LINEAR INDICATED IN PROPRIES IN

#### J. DUST CONTROL

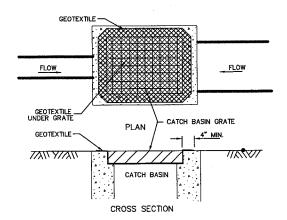
- 1. PURPOSE
  - TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF DUST WHICH MAY CAUSE OFF SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WELLIFE AND PLANTUFE, OR A TRAFFIC SAFETY
- - THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

  - STONE
    COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL IN AREAS TO LAPSHY TO WATERWAYS. USE CHEMICALLY STABLE ACCREGATE.
- MAINTENANCE
  WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE
  TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

### K. INSPECTION

THE TOWN WILL MAINTAIN A FULL TIME INSPECTION SCHEDULE DURING CONSTRUCTION ACTIVITIES.

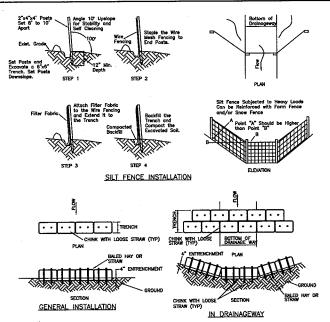
THE ENGINEER SHALL INSPECT AND ENFORCE ALONG WITH THE TOWN.



- SECURE GEOTEXTILE DRAINAGE STRUCTURE INLET PROTECTION TO ALL CATCH BASINS TO INSURE SEDIMENT IS TRAPPED AND DOES NOT ENTER DRAINAGE STRUCTURE.
- 2. THE GEOTEXTILE DRAINAGE STRUCTURE INLET PROTECTION SHALL BE INSPECTED EVERY SEVEN (7) DAYS, AFTER EACH RAINFALL 11/2" OR MORE IN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. THE GEOTEXTILE DRAINAGE STRUCTURE INLET PROTECTION SHALL BE CLEANED AND REPAIRED AND/OR REPLACED AS REQUIRED.
- 3. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF THE DEPTH OF THE CATCH BASIN GRATE.
- 4. THE TEMPORARY INLET PROTECTION SHALL BE REMOVED UPON COMPLETION OF THE PROJECT, ALL WORK SHALL MEET THE APPROVAL OF THE ENGINEER.

### TEMPORARY DRAINAGE STRUCTURE INLET PROTECTION

NOT TO SCALE



HAY BALE INSTALLATION

#### NOTES:

- 1. SILT FENCE SHALL BE INSTALLED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
- 2. MINIMUM LENGTH OF SILT FENCE SHALL BE 15 LF.
- 3. MAXIMUM POST SPACING IS 10 LF.
- 4. JOINTS ONLY AT SUPPORT POST WITH MINIMUM  $6^{\circ}$  OVERLAP, SECURELY SEALED.
- 5. SEDIMENTATION DEPOSITS SHALL BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE SILT FENCE.
- 6. SILT FENCE SHALL NOT BE USED IN A WATER COURSE.
- 7. UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS, AND WHEN DIRECTED BY THE ENGINEER, FENCE WILL BE REMOVED AND ANY SEDIMENTATION WILL BE THINLY SPREAD UPON EXISTING GROUND COVER.

# EARTH - SEDIMENTATION BARRIER DETAIL





STOCKPILE SILTATION CONTROL

MAPLE STREET & RELIHAN ROAD CHANNEL IMPROVEMENTS

STONY **BROOK** TRIBUTARY **FLOOD** CONTROL **PROJECT** 

TOWN OF DARIEN



DEPARTMENT OF **PUBLIC WORKS** 



Dewberry-Goodkind, Inc. 59 ELM STREET SUITE 101 NEW HAVEN, CT 06510 PHONE: 203,776 2277 FAX: 203,776 2288

SEAL:

REVISION SCHEDULE: DATE: SCALE: 1"=20"

NOT FOR CONSTRUCTION

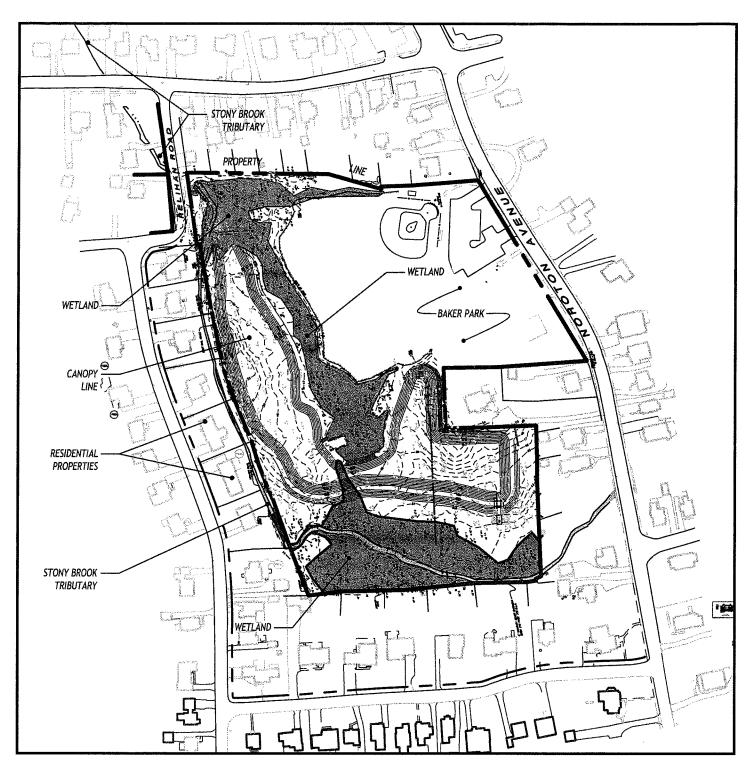
DRAWING TITLE:

CT DEP IWRD PERMIT

**DETAILS** 

DRAWING NUMBER:

PAGE 2 OF 2



# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

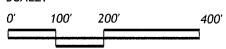
217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

BAKER PARK FLOOD CONTROL IMPROVEMENTS: EXISTING CONDITIONS & KEY MAP

DRAWING NUMBER: 12 OF 42



SCALE:



PROJECT NAME:

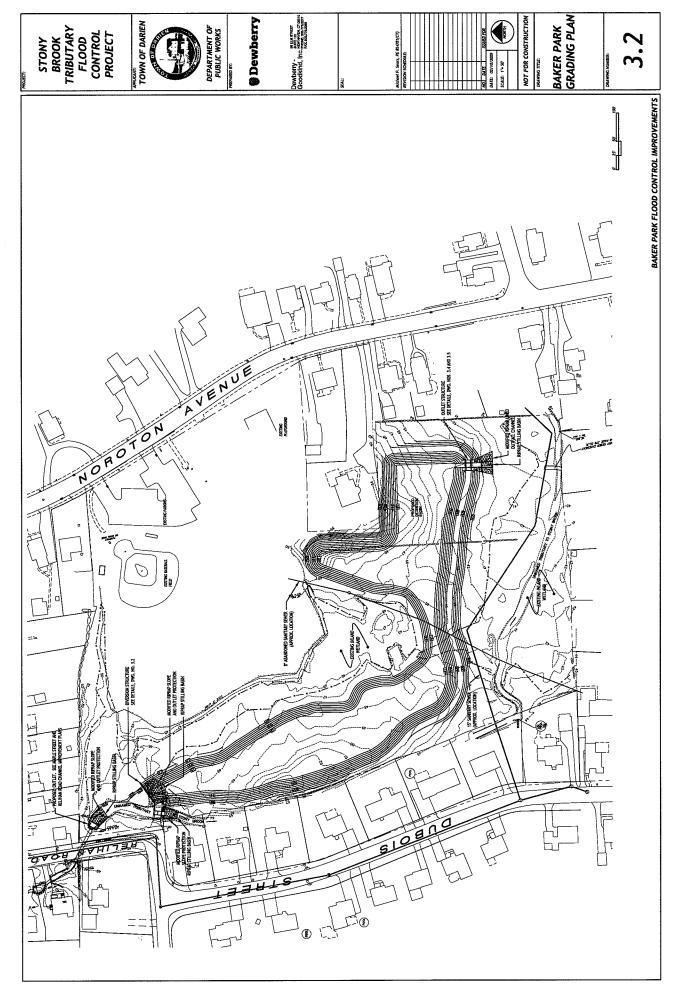
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

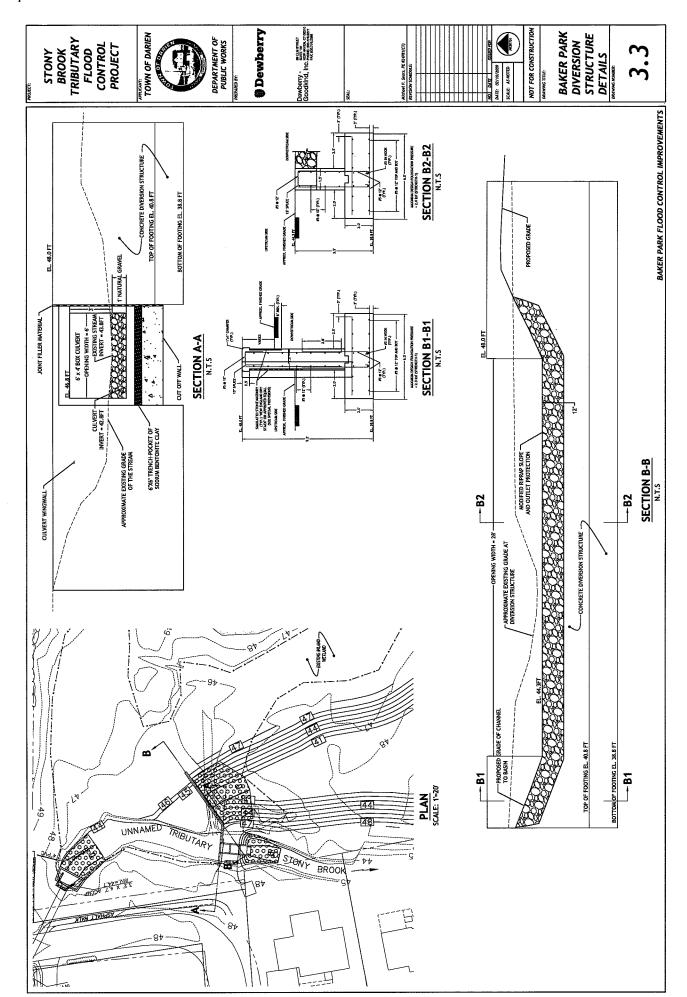
**APPLICANT:** 

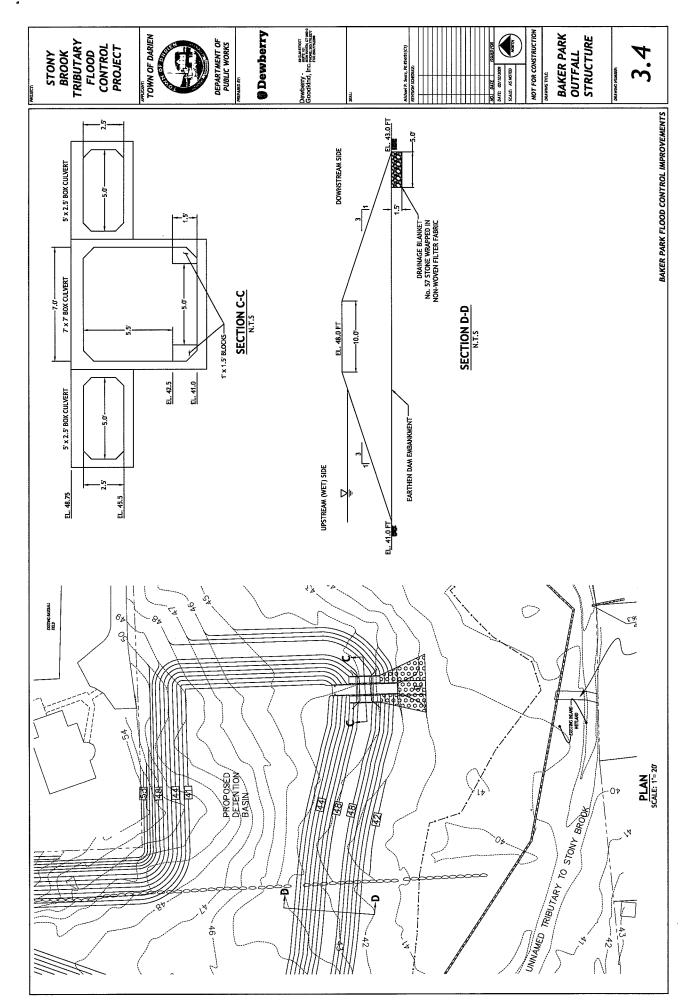
TOWN OF DARIEN CONNECTICUT

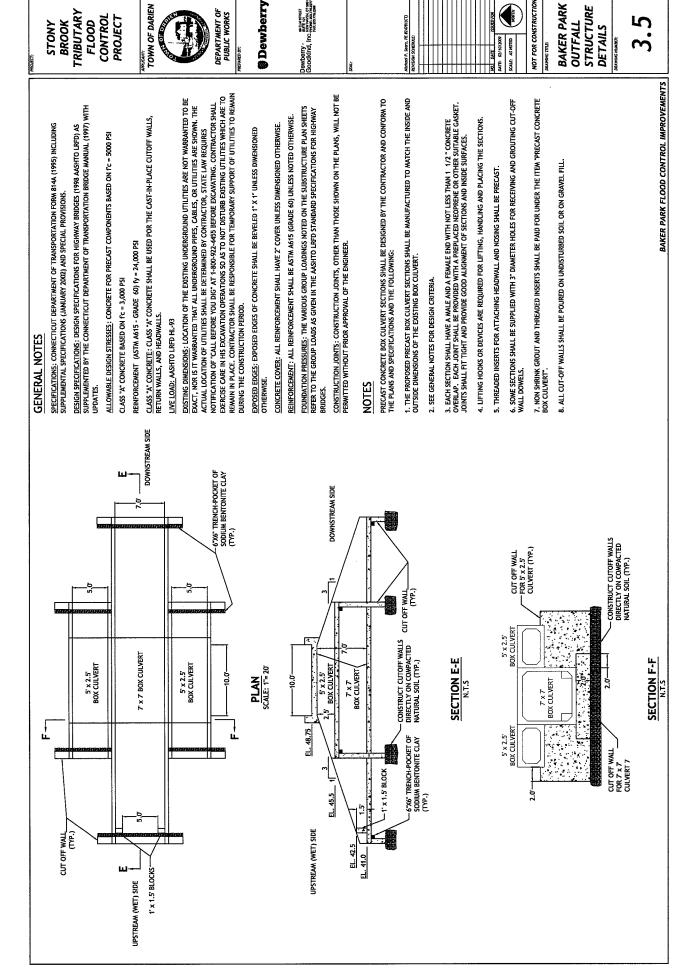
ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT











# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

BAKER PARK FLOOD CONTROL IMPROVEMENTS: PLANTING & HABITAT ENHANCEMENT PLAN

DRAWING NUMBER: 17 OF 42



SCALE:

0' 75' 150' 300'

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

### PROPOSED MEADOW SEED MIXES

STORMWATER WETLAND MEADOW/MARSH: NEW ENGLAND WET MIX, AS PRODUCED BY NEW ENGLAND WETLAND PLANTS, INC. (413 548 8000). APPLIED AT A RATE OF 1LB/2500 SQUARE FEET. WETMIX CONTAINS A WIDE VARIETY OF NATIVE SEEDS THAT ARE BEST SUITED TO MOIST DISTURBED GROUND AS FOUND IN MOST WET MEADOWS, SCRUB SHRUB, OR FORESTED WETLAND RESTORATION AREAS.

UPLAND MEADOW: NEW ENGLAND CONSERVATION/WILDLIFE MIX AS PRODUCED NEW ENGLAND WETLAND PLANTS, INC (413 548 8000). APPLIED AT A RATE OF 1 LB/1,250 SQUARE FEET. CONSERVATION/WILDLIFE MIX PROVIDES A PERMANENT COVER OF GRASSES, FORBS, WILDFLOWERS AND LEGUMES.

#### **GENERAL NOTES**

- ALL EXISTING CONDITIONS INFORMATION FOR BAKER PARK TAKEN FROM A SURVEY PREPARED BY WILLIAM W. SEYMOUR & ASSOCIATES, P.C.; ENTITLED "TOPOGRAPHIC SURVEY"; AND DATED NOVEMBER 12, 2008.
- 2. MAPPING FOR THE AREAS OUTSIDE OF BAKER PARK WAS COMPILED FROM AERIAL TOPOGRAPHIC MAPS PREPARED BY GOLDEN AERIAL SURVEY'S., 141 MT. PLEASANT ROAD, PO BOX 747, NEWTOWN, CT 06470 AND SUPPLEMENTED BY OTHER MAPS ON FILE WITH THE TOWN OF DARIEN AND GROUND SURVEY BY WILLIAM W. SEYMOUR & ASSOCIATES, PC, 170 NOROTON AVENUE. DARIEN, CT 06820.
- 3. PROPOSED IMPROVEMENTS OTHER THAN PLANTINGS AND HABITAT ENHANCEMENT FEATURES ARE FOR REFERENCE ONLY. SEE PROJECT ENGINEERS' DRAWINGS, FOR EXACT LOCATION AND SPECIFICATIONS REGARDING SITE GRADING, THE CONSTRUCTION OF DAM, OUTLET CONTROL STRUCTURES AND OTHER SURFACE WATER DETENTION AND FLOW CONTROL STRUCTURES THAT ARE SHOWN ON THIS DRAWING.
- 4. THE INFORMATION GIVEN ON THESE PLANS WITH RESPECT TO THE LOCATION OF SUBSURFACE STRUCTURES AND UTILITIES INDICATES ONLY THAT THE STRUCTURES MAY EXIST AND NO RESPONSIBILITY IS ASSUMED BY THE TOWN OF DARIEN OR IT'S CONSULTANTS FOR THE ACCURACY OF THE LOCATIONS SHOWN. UTILITY INFORMATION IS NOT GUARANTEED COMPLETE OR ACCURACE.
- 5. EXISTING UTILITIES IN CONFLICT THROUGH OR ABOVE THE PROJECT PROPERTIES SHALL BE RELOCATED AS DIRECTED BY THE APPROPRIATE UTILITY COMPANY OR THE OWNER. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY THE LOCATION AND THE DEPTH OF UTILITIES WHERE CONFLICT MAY EXIST.
- 6. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED THREE DAYS PRIOR TO THE COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.
- 7. ALL CONSTRUCTION SHALL MEET OR EXCEED THE TOWN OF DARIEN AND STATE OF CONNECTICUT STANDARDS AND SPECIFICATIONS.
- 8. ALL CONSTRUCTION SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER OR REGISTERED LANDSCAPE ARCHITECT PRIOR TO BACK FILL AND AS THE WORK PROGRESSES.
- 9. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. IT IS NOT FOR CONSTRUCTION PURPOSES.

### **LEGEND**

EXISTING CONTOUR

EXISTING WETLAND TO REMAIN

EXISTING WETLAND TO BE ELIMINATED

EXISTING WETLAND TO BE DISTURBED AND RECREATED

PROJECT PROPERTY BOUNDARY

ADJACENT PROPERTY BOUNDARY

PROPOSED CONTOUR

EXISTING WALL TO REMAIN

EXISTING WALL TO REMAIN

EXISTING TREE CANOPY EDGE

PROPOSED TREE CANOPY EDGE

EXIST SANITARY LINE

EXISTING WATERCOURSE

EXISTING WATERCOURSE TO BE ELIMINATED

PROPOSED STORMWATER WETLAND MEADOW! MARSH

DRAWING PREPARED BY:

WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

BAKER PARK FLOOD CONTROL IMPROVEMENTS: PLANTING & HABITAT ENHANCEMENT NOTES

DRAWING NUMBER: 18 OF 42

PROJECT NAME:

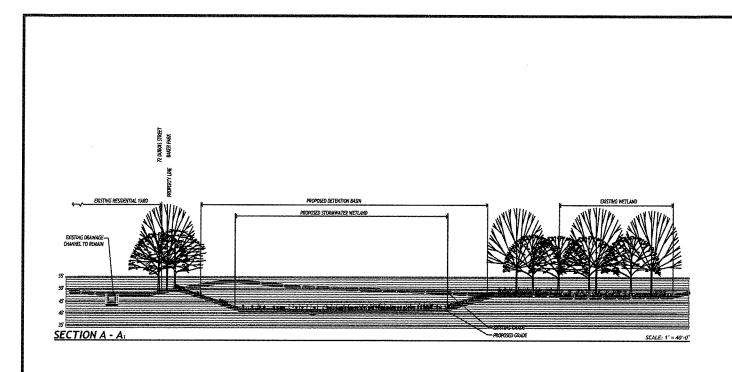
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

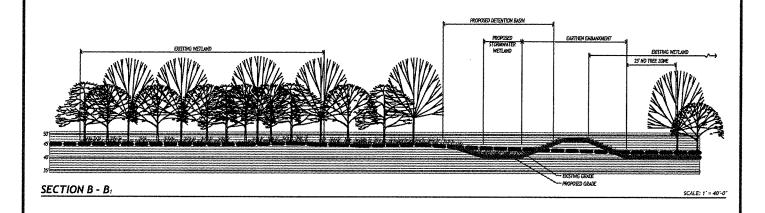
APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT





# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

BAKER PARK FLOOD CONTROL IMPROVEMENTS: PLANTING & HABITAT ENHANCEMENT CROSS SECTIONS

DRAWING NUMBER: 19 OF 42

SCALE:

0' 20' 40' 80'

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

BAKER PARK FLOOD CONTROL IMPROVEMENTS: EROSION & SEDIMENT CONTROL PLAN

DRAWING NUMBER: 20 OF 42



SCALE:

0' 75' 150' 300'

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

#### GENERAL NOTES

- 1. ALL EXISTING CONDITIONS INFORMATION FOR BAKER PARK TAKEN FROM A SURVEY PREPARED BY WILLIAM W. SEYMOUR & ASSOCIATES, P.C.; ENTITLED "TOPOGRAPHIC SURVEY"; AND DATED NOVEMBER 12, 2008.
- 2. PROPOSED IMPROVEMENTS OTHER THAN PLANTINGS, GRADING AND HABITAT ENHANCEMENT FEATURES ARE FOR REFERENCE ONLY. SEE PROJECT ENGINEERS' DESIGN DETAILS, FOR EXACT LOCATION AND SPECIFICATIONS REGARDING THE CONSTRUCTION OF DAM, OUTLET CONTROL STRUCTURES AND OTHER SURFACE WATER DETENTION AND FLOW CONTROL STRUCTURES THAT ARE SHOWN ON THIS DRAWING.
- 3. EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING MAY NOT BE ACCURATELY LOCATED AND MAY NOT INCLUDE ALL EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA.
- 4. PRIOR TO EXCAVATION, THE EXACT LOCATION OF EXISTING SUBSURFACE UTILITIES SHOULD BE CONFIRMED WITH 'CALL BEFORE YOU DIG' @ 1-8000-922-4455 AND/ OR THE RESPECTIVE UTILITY COMPANIES.
- 5. THE INFORMATION GIVEN ON THESE PLANS WITH RESPECT TO THE LOCATION OF SUBSURFACE STRUCTURES AND UTILITIES INDICATES ONLY THAT THE STRUCTURES MAY EXIST AND NO RESPONSIBILITY IS ASSUMED BY THE TOWN OF DARIEN OR IT'S CONSULTANTS FOR THE ACCURACY OF THE LOCATIONS SHOWN. UTILITY INFORMATION IS NOT GUARANTEED COMPLETE OR ACCURATE
- 6. EXISTING UTILITIES IN CONFLICT THROUGH OR ABOVE THIS PARCEL SHALL BE RELOCATED AS DIRECTED BY THE APPROPRIATE UTILITY COMPANY OR THE OWNER. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY THE LOCATION AND THE DEPTH OF UTILITIES WHERE CONFLICT MAY EXIST.
- 7. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED THREE DAYS PRIOR TO THE COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.
- 8. ALL CONSTRUCTION SHALL MEET OR EXCEED THE TOWN OF DARIEN AND STATE OF CONNECTICUT STANDARDS AND SPECIFICATIONS.
- 9. ALL CONSTRUCTION SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER OR REGISTERED LANDSCAPE ARCHITECT PRIOR TO BACK FILL AND AS THE WORK PROGRESSES.
- 10. WORK WITHIN AND ADJACENT TO WETLANDS OR WATERCOURSES SHALL BE DONE DURING PERIODS OF LOW, WHENEVER POSSIBLE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SECURE THE WORK SITE BEFORE A MAJOR STORM EVENT, AS DEFINED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WEATHER SERVICE. CONSTRUCTION STRUCTURES, MATERIALS AND EQUIPMENT SHALL BE ANCHORED OR RESTRAINED TO PREVENT DISPLACEMENT OR FLOTATION OR WILL BE REMOVED FROM THE WORK AREA BEFORE A MAJOR STORM EVENT.
- 11. EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- 12. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, A CONSTRUCTION SEQUENCING PLAN AND A WATER HANDLING PLAN MUST BE SUBMITTED TO THE PROJECT WETLAND SCIENTIST IN WRITING FOR APPROVAL.
- 13. A WRITTEN PROPOSAL FOR SPECIFIC METHODS AND DEVICES TO BE USED FOR DEWATERING ACTIVITIES MUST BE SUBMITTED TO THE PROJECT WETLAND SCIENTIST FOR APPROVAL BEFORE THOSE OPERATIONS CAN BEGIN. THE WETLAND SCIENTIST MAY CEASE DEWATERING OPERATIONS IF EXCESSIVE TURBIDITY BECOMES A PROBLEM.
- 14. UNCONFINED WORK WITHIN STONY BROOK OR OTHER WATERWAY SHALL BE RESTRICTED TO THE TIME PERIOD OF JUNE 1 TO SEPTEMBER 30.
- 15. WORK WITHIN AND ADJACENT TO WETLANDS OR WATERCOURSES SHALL BE DONE DURING PERIODS OF LOW FLOW, WHENEVER POSSIBLE.
- 16. WITHIN 7 DAYS OF SETTING THE APPROXIMATE FINAL GRADE ON SLOPES, SEEDING WILL BE ACCOMPLISHED AS DETERMINED BY THE PROJECT WETLAND SCIENTIST. IF THE GRADING OPERATION WILL BE SUSPENDED FOR 30 OR MORE CONSECUTIVE DAYS. SEEDING OR SOME FORM OF SOIL STABILIZATION WILL BE REQUIRED.
- 17. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. IT IS NOT FOR CONSTRUCTION PURPOSES.

### LEGEND **EXISTING CONTOUR** EXISTING WETLAND TO REMAIN EXISTING WETLAND TO BE ELIMINATED CREATED STORMWATER WETLAND PROJECT PROPERTY BOUNDARY ADJACENT PROPERTY BOUNDARY 553 PROPOSED CONTOUR EXISTING WALL EXIST SANITARY LINE EXISTING TREE TO REMAIN EXISTING TREE TO BE REMOVED TEMPORARY SILTATION BARRIER LIMIT OF DISTURBANCE & TEMPORARY 6' CHAINLINK FENCE EXISTING WATERCOURSE **EXISTING WATERCOURSE TO BE ELIMINATED** CONSTRUCTION ACCESSWAY TEMPORARY EROSION CONTROL MATTING

DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates net DRAWING NAME:

BAKER PARK FLOOD CONTROL IMPROVEMENTS: EROSION & SEDIMENT CONTROL NOTES & LEGEND

DRAWING NUMBER: **21 OF 42** 

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

#### CONSTRUCTION SEQUENCE

- INSTALL PERIMETER SECURITY FENCE AND SILTATION BARRIER AS SHOWN ON PLAN.
- OBTAIN TOWN APPROVAL OF INSTALLATED SEDIMENT AND EROSION CONTROLS.
  MARK AND CUT TREES TO BE REMOVED. LEAVE ROOT SYSTEMS IN PLACE.

CONSTRUCT DIVERSION STRUCTURE

- a) CONVEY WATER FROM WATERCOURSE AWAY FROM CONSTRUCTION AREA AND TO DOWNSTREAM EXISTING WATERCOURSE. CONTINUE DIVERSION AS NEEDED UNTIL CONSTRUCTION AREA PERMANENTLY STABILIZED.
- GRUB PROJECT AREA NECESSARY TO CONSTRUCT DIVERSION AND CONSTRUCTION ACCESS.
  STRIP TOPSOIL AND STOCKPILE. PROTECT WITH APPROPRIATE SEDIMENTATION
- CONTROL MEASURES.

CONSTRUCT DIVERSION STRUCTURE.
PLACE TOPSOIL AND THEN FINISH GRADE THE SOIL SURFACE.

INSTALL VEGETATION.
ALLOW SOWN SEED TO GERMINATE.

BLOCK EASTERN OPENING IN DIVERSION WITH SAND BAGS OR SIMILAR MEASURES TO A HEIGHT OF ELEVATION 48 TO PREVENT STORMWATER FLOWS INTO DETENTION BASIN WORK AREA.

WORK AREA.

i) RESTORE BASEFLOW STREAM WATER TO EXISTING CHANNEL.

CONYEY WATER FROM ONSITE WETLAND AWAY FROM DETENTION BASIN CONSTRUCTION AREA AND TO DOWNSTREAM WETLAND. CONTINUE DIVERSION AS NEEDED UNTIL CONSTRUCTION AREA PERMANENTLY STABILIZED.

CONSTRUCT EARTHEN EMBANKMENT AND OUTFALL CONTROL STRUCTURE.

a) GRUB/REMOVE UNDERLYING VEGETATION AND VEGETATION FROM BORROW AREAS WITHIN THE LIMIT OF DISTURBANCE. LIMIT GRUBBING TO EMBANKMENT AND BORROW AREAS

- AREA.
  STRIP TOPSOIL AND STOCKPILE. PROTECT WITH APPROPRIATE SEDIMENTATION
- CONTROL MEASURES. CONSTRUCT EMBANKMENT.

d) STABILIZE EMBANKMENT.
GRUB REMAINING PORTION OF DETENTION BASIN CONSTRUCTION AREA.
STRIP TOPSOIL AND STOCKPILE. PROTECT WITH APPROPRIATE SEDIMENTATION CONTROL

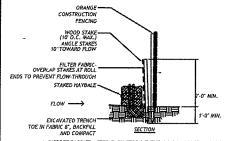
EXCAVATE AND GRADE DETENTION BASIN AREA.

10) PLACE TOPSOIL AND THEN FINISH GRADE THE SOIL SURFACE.
11) INSTALL VEGETATION AND OTHER HABITAT FEATURES.
12) ALLOW SOWN SEED TO GERMINATE. FOLLOWING SITE STABILIZATION, REMOVE SEDIMENTATION CONTROLS AND UNBLOCK DIVERSION STRUCTURE TO ALLOW STORMWATER FLOWS FROM STREAM TO ENTER THE DETENTION BASIN.

13) MAINTAIN PERIMETER SECURITY FENCING AS NEEDED TO PROTECT INSTALLED PLANTINGS AND OTHER IMPROVEMENTS FROM HUMAN OR WILDLIFE DAMAGE.

#### SILTATION BARRIER DETAIL

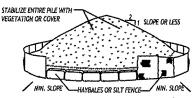
NOT TO SCALE



- 1. INSPECT BARRIER AFTER EACH STORM EVENTAND DAILY DURING PROLONGED RAINFALL.
- 2. REMOVE SEDIMENT WHEN IT REACHES APPROXIMATELY ONE-HALF THE BARRIER HEIGHT.
  3. HAYBALES MUST BE TIGHTLY ABUTTING WITH NO GAPS AND STAKED IN PLACE.

#### TOPSOIL STOCKPILE DETAIL

NOT TO SCALE



INSTALLATION NOTES

AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY

AND STABLE.

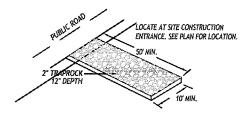
MAXIMUM SLOPE OF STOCK PILE SHALL BE 1:2.

UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

SEE (THIS SHEET) FOR INSTALLATION OF SILT FENCE.

#### ANTI- TRACKING PAD DETAIL

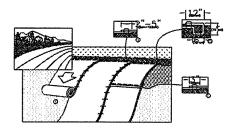
NOT TO SCALE



EFFECTED PORTIONS OF OFFSITE ROADS MUST BE KEPT CLEAN. ALL SEDIMENT DROPPED OR TRACKED ONTO ROADWAYS IS TO BE REMOVED IMMEDIATELY

### TEMPORARY EROSION CONTROL MATTING

NOT TO SCALE



- MAT SHALL CONSIST OF ULTRAVIOLET LIGHT RESISTANT POLYMER OR SYNTHETIC. FIRERS MECHANICALLY, STRUCTURALLY, AND/OR CHEMICALLY BOUND TOGETHER FOR A CONTINUOS MATRIX OF CONSISTENT THICKNESS.
- MAT SHALL CONTAIN NO CONTAMINANT THAT POLLUTE THE AIR OR WATER OF THE STATE WHEN PROPERLY INSTALLED AND BE FREE OF ANY SUBSTANCE TOXIC TO PLANT GROWTH AND UNPROTECTED HUMAN SKIN OR WHICH INTERFERES WITH SEED GERMINATION,

DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 Fax: 203 366 0067 wkassociates.net

DRAWING NAME:

BAKER PARK TRIBUTARY FLOOD CONTROL **IMPROVEMENTS: EROSION & SEDIMENT** CONTROL DETAILS & SPECS.

DRAWING NUMBER: 22 OF 42

PROJECT NAME:

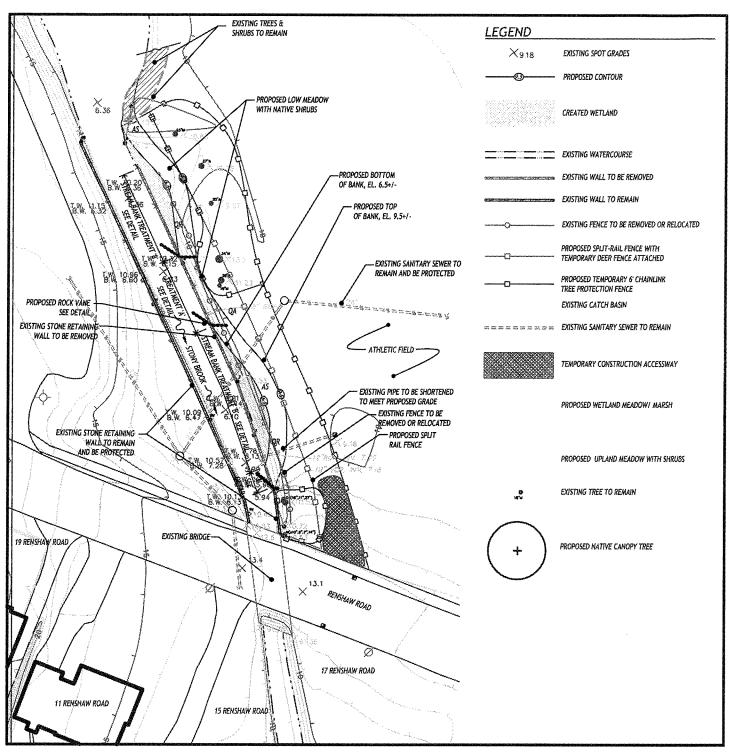
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

STONY BROOK STREAM CHANNEL IMPROVEMENTS: SITE PLAN

DRAWING NUMBER: 23 OF 42



SCALE:

0' 25' 50' 100'

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

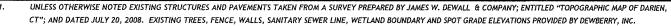
| SYM.    | QTY.    | SCIENTIFIC NAME       | COMMON NAME         | SIZE        | ROOT             | FOOD  | COVER | NESTING |
|---------|---------|-----------------------|---------------------|-------------|------------------|-------|-------|---------|
| TREES   |         |                       |                     |             |                  |       |       |         |
| AS      | 2       | ACER SACCHARUM        | SUGAR MAPLE         | 10'-12' HT. | 6 <del>8</del> 8 | FS,P  |       | •       |
| QA .    | 1       | QUERCUS ALBA          | WHITE OAK           | 10'-12' HT. | 888              | FS,P  | •     | •       |
| QR      | 2       | QUERCUS RUBRA         | RED OAK             | 10-12 HT.   | 888              | FS,P  |       |         |
| TOTAL:  | 5       |                       |                     |             |                  |       |       |         |
| SHRUBS  |         |                       |                     |             |                  |       |       |         |
| CA      | 60      | CLETHRA ALNIFOLIA     | SWEETPEPPERBUSH     | 18"-24"     | CONT.            | PWF,F | •     | •       |
| C/A     | 65      | CORNUS AMOMUM         | SILKY DOGWOOD       | 18~24       | CONT.            | FF,P  | •     | •       |
| CR      | 55      | CORNUS RACEMOSA       | GRAY DOGWOOD        | 18'-24"     | CONT.            | FF,P  | •     | •       |
| MP      | 60      | MYRICA PENSYLVANICA   | NORTHERN BAYBERRY   | 18'-24"     | CONT.            | PWF,F | •     | •       |
| sc      | 55      | SAMBUCUS CANADENSIS   | ELDERBERRY          | 18"-24"     | CONT.            | FF,P  | •     | +       |
| VD      | 65      | VIBURNUM DENTATUM     | SOUTHERN ARROWWOOD  | 187-247     | CONT.            | FF,P  | •     | +       |
| TOTAL:  | 360     | ·····                 |                     |             |                  |       |       |         |
| HERBACE | OUS EME | RGENTS                |                     |             |                  |       |       |         |
| VL.     | 64      | NUPHAR LUTEUM         | SPATTER DUCK        | 2" PLUG     | 2"PLUG           | FF,P  | *     | •       |
| 2       | 67      | PELTANDRA VIRGINICA   | ARROW ARUM          | 2" PLUG     | 2" PLUG          | FF,P  | •     |         |
| r       | óf      | PONTEDERIA CORDATA    | PRICKLE WEED        | 2" PLUG     | 2" PLUG          | ESF,P | •     | •       |
| iL      | 67      | SAGGITARIA LATIFOLIA  | ARROW HEAD          | 2" PLUG     | 2" PLUG          | E8F,P | •     | •       |
| ic      | 64      | SCIRPUS PUNGENS       | COMMON THREE-SQUARE | 2" PLUG     | 2" PLUG          | ESF,P | •     | •       |
| V       | 59      | SCIRPUS VALIDAS       | SOFT-STEM BULRUSH   | 2" PLUG     | 2" PLUG          | FF,P  | •     | •       |
| E       | 65      | SPARGANIUM EURYCARPUM | GIANT BURREED       | 2" PLUG     | 2" PLUG          | E8F,P | •     | •       |
| OTAL:   | 450     |                       |                     |             |                  |       |       |         |

FOOD TYPE: S-SEED, P-PLANT PART, N-NECTAR, R-ROOTSTOCK

FOOD AVAILABILITY: ESF-EARLY SUMMER FRUITS, FF-FALL FRUITS, PWF-PERSISTENT WINTER FRUITS, SSS-SPRING/SUMMER SEEDS,

FS-FALL SEEDS NDICATES SIGNIFICANT CONTRIBUTION

# **GENERAL NOTES**



WORK LOCATION MAP

MATHER FIELDS

IPROVEMENTS ACTIVITIES

- WORK WITHIN AND ADJACENT TO WETLANDS OR WATERCOURSES SHALL BE DONE DURING PERIODS OF LOW FLOW, WHENEVER POSSIBLE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SECURE THE WORK SITE BEFORE A MAJOR STORM EVENT, AS DEFINED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WEATHER SERVICE. CONSTRUCTION STRUCTURES, MATERIALS AND EQUIPMENT SHALL BE ANCHORED OR RESTRAINED TO PREVENT DISPLACEMENT OR FLOTATION OR WILL BE REMOVED FROM THE WORK AREA (TO AREAS LOCATED ABOVE ELEVATION 49) BEFORE A MAJOR STORM EVENT.
- THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. IT IS NOT FOR CONSTRUCTION PURPOSES. 3.
- EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, A CONSTRUCTION SEQUENCING PLAN AND A WATER HANDLING PLAN MUST BE SUBMITTED TO THE PROJECT WETLAND SCIENTIST IN WRITING FOR APPROVAL.
- 6. A WRITTEN PROPOSAL FOR SPECIFIC METHODS AND DEVICES TO BE USED FOR DEWATERING ACTIVITIES MUST BE SUBMITTED TO THE PROJECT WETLAND SCIENTIST FOR APPROVAL BEFORE THOSE OPERATIONS CAN BEGIN. THE WETLAND SCIENTIST MAY CEASE DEWATERING OPERATIONS IF EXCESSIVE TURBIDITY BECOMES A PROBLEM.
- 7. UNCONFINED WORK WITHIN STONY BROOK OR OTHER WATERWAY SHALL BE RESTRICTED TO THE TIME PERIOD OF JUNE 1 TO SEPTEMBER 30.
- 8. WORK WITHIN AND ADJACENT TO WETLANDS OR WATERCOURSES SHALL BE DONE DURING PERIODS OF LOW FLOW, WHENEVER POSSIBLE
- WITHIN 7 DAYS OF SETTING THE APPROXIMATE FINAL GRADE ON SLOPES, SEEDING WILL BE ACCOMPLISHED AS DETERMINED BY THE PROJECT WETLAND SCIENTIST. IF THE GRADING OPERATION WILL BE SUSPENDED FOR 30 OR MORE CONSECUTIVE DAYS, SEEDING OR SOME FORM OF SOIL STABILIZATION WILL BE REQUIRED.

#### PROJECT SEQUENCE

- INSTALL TEMPORARY TREE PROTECTION FENCE AS SHOWN ON PLAN.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE ANTI TRACKING PAD.
- 3 INSTALL TEMPORARY COFFERDAM.
- 4. OBTAIN TOWN APPROVAL OF INSTALLED SEDIMENT AND EROSION CONTROLS.
- 5. BEGINNING AT THE NORTHERN LIMIT OF THE PROJECT WORK AREA, REMOVE EXISTING STONE WALL AND INITIATE CONSTRUCTION OF ROCK VANES, BOULDER REVETMENTS AND ELOODPLAIN WETLANDS AND GRADING OF STREAM BANKS.
- GRADE PROPOSED WETLAND CREATION AREAS AND PROPOSED VEGETATED STREAM BANK.
- 7. PLACE TOPSOIL AND THEN FINISH GRADE THE SOIL SURFACE.
- 8. INSTALL VEGETATION AND OTHER HABITAT FEATURES.
- 9. REMOVE TEMPORARY COFFERDAM.
- 10. INSTALL WOODEN SPLIT RAIL FENCE AND TEMPORARY DEER FENCE.
- 11. REMOVE CONSTRUCTION ACCESSWAY AND VEGETATE AREA.
- 12. REMOVE TEMPORARY TREE PROTECTION FENCE.
- 13. MAINTAIN TEMPORARY DEER FENCING AS NEEDED TO PROTECT INSTALLED PLANTINGS AND OTHER IMPROVEMENTS FROM HUMAN OR WILDLIFE DAMAGE.

DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE **ECOLOGICAL SERVICES** LAND USE PLANNING LANDSCAPE ARCHITECTURE

DRAWING NUMBER:

DRAWING NAME: STONY BROOK STREAM

**CHANNEL IMPROVEMENTS:** NOTES

24 OF 42

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

DATE: FEBRUARY 10, 2009

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net

### HABITAT MANAGEMENT SPECIFICATIONS

- 11 STREAM CHANNEL AND DIMIK IMPROVEMENTS GALECTIVESS:

  (I) EXPANDING AND DIVERSEYING HABITAT YIPS THROUGH THE REMOVAL OF THE

  BUSTING STONE WALL ALONG THE STREAM BANK AND THE ESTABLISHMENT OF

  MATURALLY VOCATION TO LOOD AN WETLAND AREAS AND UN AND SLOPING BANKS.

  b) INCREASE THE ABURDANCE AND DIVERSTY OF WETLAND AND WATERCOURSE

  FLORA. THIS WILL BE ACKNOWN THROUGH THE COMPLETION OF THE LIA MOTED

  AROVE AND BY THATALISH AND BUSTATION OF WETLAND AND WATERCOURSE

  FLORAL THIS WILL BE ACKNOWN THROUGH THE COMPLETION OF TREES, SHOUSS AND

  INCREASE THE ABURDANCE AND DIVERSTY OF WETLAND AND WATERCOURSE

  FAUNA. THIS WILL BE ACKNOWN THE MATURE OF BOOK ANDS THAT WILL EARLY AS DIVERSITY OF INSTEAM HABITAT BY FORBING POOLS AND BY MARROWING AND

  DEPENIES THAT WILL PROVIDE ADDITIONAL HACKING OF THE STREAM

  IN CREASE THE STORM AND CONDIVINES AND OF THE STREAM

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  SLOPE AND CREATING SMALL HOODWATER STORMER OF THE AREA. THIS WILL BE

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  ACKNOWN CREATING SMALL HOODWATER STORMER OF THE AREA. THIS WILL BE

  ACKNOWN CREATING SMALL HOODWATER STORMER OF THE STREAM

  IN MARDOUR DOWN THE STORM WATER QUALITY BY REMOVING LAWN THAT DIRECTLY

  BOOKERS THE STORM AND REPLACED IT WITH A MATURALLED BUFFER.

  IT SOLD AND THE STORM SECRET MODIFY THE AREA CHANGE OF THE AREA

  CAMPLY THESE, AND MONITORING AND MAINTENANCE ACTIVITIES FOLLOWING

  PLANTING.

- ABITAT BIHANCEHENT SUCCESS STANDARDS

  J THE HEBITAT EIHHANCEHENT ACTIVITIES WILL BE CONSIDERED A SUCCESS IF THE
  POLLONING STANDARDS ARE MET AT THE ROD OF THE PROJECT MONITORING PERIOD:

  J PROPOSED WETLAND HYRORLOGIC OBJECTIVES ARE MET.

  III) PURPECTATION OFFERSTY AND DENSITY OLICILITYS ARE MET.

  III) PURPECTATION OFFERSTY AND DENSITY OLICILITYS ARE MET.

  III) PURPECTATION OFFERSTY AND DENSITY OLICILITYS ARE MET.

  III) COMMON REED, PURPEL COOSETISTE, RUSSAM AND AUTUMN OLIVE, EUCKTHORN,
  JAPANESE KROTWEED JANDE ORM MITTODAR ROSE ME, ANTS WITHIN THE HUMBITAT
  EIHHAMELWEHT AREA ARE BENIC CONTROLLED.

  ALL SLOPES, SUSSISTATES, AND CONSTRUCTED FEATURES WITHIN AND
  ADJACENT TO THE HABITAT EIHHANCEMENT AREA ARE STABLE.
- 3) WORK DESCRIPTION PROVIDE ALL MEANS AND MATERIALS NECESSARY FOR SUPPLYING, INSTALLING AND MAINTAINING THE YEE AND SIZE OF THE FLANT MATERIAL AND OTHER IMPROVEMENTS INDICATED IN THE SITE AND AND FOR ACHIEVING THE HABITAT ENHANCEMENT OBJECTIVES AND SUCCESS TANDARDS.

- - PODIECT AND EXECUTION PATE

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    1 TOPOSS. SHALL CONSTS OF A NEVER OF ENIAL VALUES OF DOCUME AND
    1 TOPOSS. SHALL CONSTS OF A NEVER OF THE ORDINARY METRIAL WHICH SHALL RE
    FREE OF WED SEED AND PHYSICAL (E.G., ILATIC) AND CHENKAL
    CONTAMINATION. THE ORDINARY METRIC CONTENS SHALLD BE 15 TO 25 PERCENT

    IF PROVIDE DOCUMENTATION RECLARABLY THE SUBJECT OF TOPOSIC AND THE
    POTENTIAL FOR THE RESEASE OF WARVEN SEEDS SHAPPLAND FOR TOPOSICAL
    BIT TESTING OF THE TOPOSIC AND AN ACCEPTABLE LANDIATION PRIOR TO PLANTING
    WILL RET THE RESPONDENT OF THE STEE CONTROLLARY APPLICATIONS OF
    WILL RET THE RESPONDENT OF THE STEE CONTROLLARY APPLICATIONS OF
    SCHOOL THE PROPERTY OF THE TOPOSICAL SERVICE AND STRUCK THE MORTHERST

    15 MERCH TORSOLL TO A CHEFF CONCLUS AS PREJURIDED THE MORTHERST
    16 SERVED TORSOLL TO A CHEFF CONCLUS AS THE MICRITORICEMPRIC

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  - - GENERAL
      (1) ALL VEGETATION USED FOR PERMANENT PLANTINGS SHALL BE GROWN AND
      PROPAGATED FROM NATIVE PLANTS GROWING NATURALLY WITHIN 200 MILES

    - PROPAGATED PROM MATIVE PLANTS GROWING DATURALLY WITHIN 200 MLCS OF THE SITE. (2) NOW HATVY, NOW HAVASIVE ANNUALS MAY BE USED FOR TUPOPORARY PLANTINGS IF APPROVED BY THE OWNER'S REPRESENTATIVE. (3) PROVIDE A CERTIFICATE OR INVOICE FROM THE PLANT MATERIAL SUPPLIERS HOMCATION ETHE AWAY SOURCE, THE DATURAL MANG, UQUATITY, AND SIZE OF THE RAWSTS DELIVERED TO THE PROJECT SITE, IN ADDITION TO PROVIDING ALL PLANT LIGHT.

- (4) ALL PLANT MATURALS SHALL BE INSPECTED FOR DETECTS, DREASE, DAMAGE ON MATERIA SHALL BE INSPECTED FOR DETECTS, DREASE, DAMAGE ON MATERIA SHALL BE INSPECTED FOR DETECTS, DREASE, DAMAGE ON MATERIA SHALL BE RETURNED ON MATERIA SHALL BE RETURNED ON MATERIA SHALL BE RETURNED ON MATERIA SHALL BE SHALL BE THE SECTED FOR THE SECTED FOR THE SECTED FOR THE SECTED SHALL BE SHALL

- OCCUS BOTH. THE PETERS OF SERVED PLANES EXCESS INFORMATION OF SETTING.

  (3) SUPPLEASEMENT SECTION AND THEN POWN SECTION CONFACT WITH THE PROPERTY OF SECTION OF THE PLANT LIST.

  (4) SUPPLEASE OF FAITS AS SECURICED ON THE PLANT LIST.

  (5) SUPPLEASE PREPARATION. LOOSEN SUBGRADE OF THE FLANTING BED AREAS TO A ADMINISTRATION DEFINED.

  (7) HOMERATELY FOLLOWING SECURE, WHICH THE SEEDED SUPPLEASE OF THE PLANT THE SECURIOUS SECTION OF THE SECURIOUS SECRED AND CALL THE SECURIOUS SECURIOUS SECTION OF THE SECURIOUS SECURIOUS SECTION OF THE PROPERTY OF THE PROPERTY

- CRIMINOUS THEST ADJOINED TO HEAD AS A THE DESCRIPTION OF THE STRUCK.

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  11 MANY CLARKES THE FALL AS ADMITTIONAL PRIOR SHALL BE SECRIPTION TO ADDOD AS REQUIRED TO EXPENSATION OF PROVIDENCE AND MAINT THOMS PRIOR SHATCHARD.

  12 MANY CLARKES THE FALL AS A MERIT DAMAGE, INCLUDING EXPOSION, WILLIAM, THE STRUCK SHALL HE PARKED THE PRIOR SHATCHARD.

  13 MANY CLARKES THE PARKED AS ADMITTIONAL PRIOR SHATCHARD TO BE SECRIPTION.

  14 MANY CLARKES THE PARKED AS ADMITTIONAL PRIOR SHATCHARD TO BE SECRIPTION.

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- AND MAINTENANCE WILL INCLUDE: (1) DETERMINE THE PRESENCE AND ABUNDANCE OF INVASIVE PLANTS.

- (?) FRED MARK (MA FLAGGING OR OTHER MEANS) BESIGNED EVECTATION TO BRUMM AND INVASIVE QUIDESDRADE, PLANTS TO BE CONTROLLED.

  (3) CONTROL WASNES PLANTS NO MINISCAL OR CHARGAL ASTROODS, THE ALENDO TYPE WILL BE SETEMBHED BY THE WELLAND SCIENTIS FASED ON THE ALENDA THE PLANTS AND DEPENDENCE OF WASNESS PLANTS AND DEPENDENCE OF WASNESS PLANTS AND THE ALENDA THE ALENDANCE OF PLANTS AND THE CONTROL OF MASSIVE PLANT SPECIES WILL BE CONSULTED TO ASSIST WITH SPECIFIC AND ARROPORABLE REPODLOCK, COMPATE PHYSICAL PLANT SPECIES WILL BE CONSULTED TO ASSIST WITH SPECIFIC AND ARROPORABLE PRODUCCION. CONSULTED THE SIGN THAT SPECIES WILL BE CONSULTED TO ASSIST WITH SPECIFIC AND ARROPORABLE PRODUCCION. CONTROL TO THE SECTION OF THE SPECIAL PLANT SPECIES WILL BE CONSULTED TO ASSIST WITH SPECIFIC PLANTS. AND ARROPORABLE PLANT SPECIES WILL BE CONSULTED TO ASSIST WITH SPECIFIC PLANTS.

  BENEFIC CONTROL OF THE SPECIAL PLANT SPECIES WILL BE CONSULTED TO ASSIST WITH SPECIFIC PLANTS.

- CLYMODINATE AND MERCORES MACCORDANCE WITH MANUFACTURER'S 
  RECOMMENDATIONS AND PAPELORE LAWS.

  RECOMMENDATIONS AND PAPELORE LAWS.

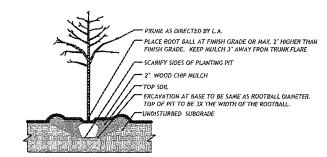
  RECOMMENDATION OF PRICE PRICE AND PAPELORE LAWS.

  JOHN TO THE COUNTYPING OF THE MARKET HIMMACHINI IMPROVEMENTS FOR FIVE 
  VAISE. THE PRIST YEAR OF MONITORING SHALL BEEN FOLLOWING THE RIST FILL 
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- SMALLS VIEW DORSON AND MODIFIED MARKET DIMENSIAL REPORT

  SMAMARET ELD GORGON AND MODIFIED MARKET DIMENSIAL DIMENSIAL

### UPLAND TREE PLANTING DETAIL



DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net

DRAWING NAME:

STONY BROOK STREAM **CHANNEL IMPROVEMENTS:** NOTES

DRAWING NUMBER: 25 OF 42

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

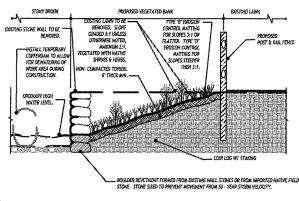
TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

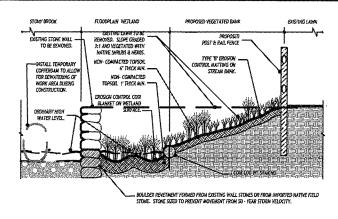
### STREAM BANK TREATMENT "A"

NOT TO SCALE



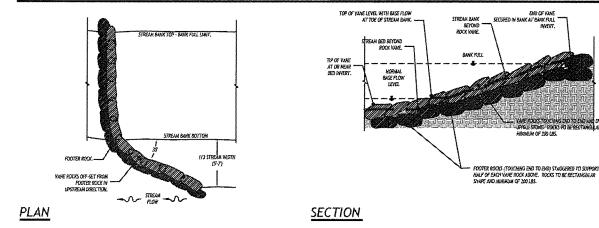
### STREAM BANK TREATMENT "B"

NOT TO SCALE



### **ROCK VANE**

NOT TO SCALE



DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

STONY BROOK STREAM CHANNEL IMPROVEMENTS: DETAILS AND SPECS.

DRAWING NUMBER:

26 OF 42

PROJECT NAME:

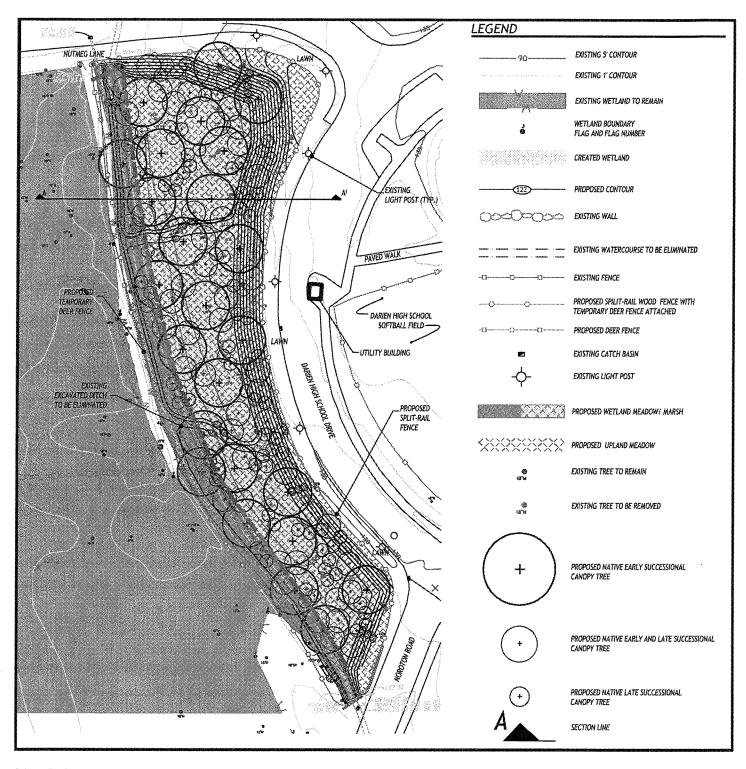
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

DARIEN HIGH SCHOOL WETLAND CREATION AND ENHANCEMENT: SITE PLAN

DRAWING NUMBER: 27 OF 42



SCALE:

0' 30' 60' 120'

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

### **GENERAL NOTES**

- 1. UNLESS OTHERWISE NOTED (FOR DARIEN HIGH SCHOOL) EXISTING STRUCTURES AND PAVEMENTS TAKEN FROM A SURVEY PREPARED BY JAMES W. DEWALL & COMPANY; ENTITLED "TOPOGRAPHIC MAP OF DARIEN, CT"; AND DATED JULY 20, 2008. EXISTING TREES, FENCES, WALLS, SANITARY SEWER LINE, WETLAND BOUNDARY AND SPOT GRADE ELEVATIONS PROVIDED BY WILLIAM SEYMOUR ASSOCIATES.
- 2. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. IT IS NOT FOR CONSTRUCTION PURPOSES.

### **PLANT LIST**

| SYM.  | QTY. | SCIENTIFIC HAME         | COMMON NAME                             | site         | ROOT         | HA     | NTAT                           | FOOD                                    | COVER | HESTING |
|-------|------|-------------------------|---|--------------|--------------|--------|--------------------------------|---|-------|---------|
|       |      |                         |   |              |              | UPLAND | TOMINHD                        |   |       |         |
| TRECS |      |                         |   |              |              |        | Α                              |   |       |         |
| ۸Ç    | 20   | AMPLANCHIER CANADENSIS  | SERVICERERY                             | 6'-1'NT      | file0        | _      |                                | ESF,P                                   | •     | •       |
| CF    | 17   | CORRUS PLORIDA          | PLOWERING DOGWOOD                       | 4.6"HT.      | BER          | ¥      | <u> </u>                       | FF,P                                    | •     |         |
| AF    | 1."  | ACCE RUBRUM             | RED MAPLE                               | 4-10"HT.     | \$88         | A      | 4                              | ESF,P                                   | •     |         |
| AR    | 4    | ACER RUBRUM             | PED MAPLE                               | 2.5" J' CAL. | 5 <b>5</b> 8 | A      | 4                              | £3F,P                                   | •     | •       |
| ΑÑ    | 7    | ACER NEGIONOO           | 60X SLOER                               | 2.5"-3" CAL. | 888          |        |                                | E9F,P                                   | •     | •       |
| VA.   | ,    | ULMUS AMERICANA         | AMERICAN ELM                            | 2.5"-3" CAL. | süs          |        |                                | F5,P                                    | •     | •       |
| 45    | 18   | ACER SACCHARUM          | SOGAR MAPLE                             | 6.5 HT.      | 969          |        | ****************************** | FB,P                                    | •     | A       |
| FA.   |      | FRANINUS AMERICANA      | WHITE ASH                               | 2.5"-3" GAL. | 598          |        | 4                              | PWF,P                                   | •     | *       |
| 179   | 3    | FRANKUS PEIKISYLYANICA  | GREEN ASH                               | 2.5" J' C4L. | 858          | A      | <u> </u>                       | PWF,P                                   | •     | •       |
| %G    | 15   | FAGUS GRANDIFOLIA       | AMERICAN BEECH                          | 5'-10" HT.   | 200          |        |                                | ESF,P                                   | •     | •       |
| 00    | 9    | PLATUNUS OCCIDENTALIS   | SYCAMORE                                | 8'-10' HT.   | 546          | 4      |                                | FF.P                                    |       | •       |
| 40    | 4    | PLAYUNUS OCCIDENTALIS   | SYCAMORE                                | 2.5°-3" CAL. | 868          | 1      | _                              | FF,P                                    | •     | 4       |
| 69    | 19   | QUERCUS DICOLOR         | SWAMP WILLTE OAK                        | 4-8" 117.    | 853          |        |                                | E3F,P                                   | •     |         |
| ¥'    | 10   | QUÉRCUS PALUSTRIS       | PIN OAK                                 | 8'-10" HT.   | ¢58          | A      |                                | (SF,P                                   | •     | •       |
| T     |      | LIRIDDENDRON TULIPITERA | TUSE TREE                               | 2.573" CAL.  | 248          | A      | A                              | FF.P                                    | •     | •       |
| ý8    | 15   | QUERCUS RUSSA           | RED CAX                                 | 6'-1' HT.    | fikil        |        | 4                              | ESF,P                                   | •     | •       |
| OTAL. | 745  |                         | *************************************** |              |              |        |                                | *************************************** |       |         |

SETO MUSE.

WETLAND PROMOTED WITH SET ENCLAND WET WAS, AS PRODUCED BY NEW CHOLAND PETLAND PELMET, INC. (#12 546 2000). APPAIRD AT A RAFT OF HEATON STATEMENT, WETLAND CONTINUES AND WEST OF MUSE TO WHICH SET STATEMENT CANDING STAT

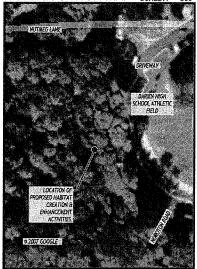
Willife Emilities.
7000 Tipe: S-KETD, P-PI-ANT PART, K-NECTAR, B-ROOTSTOCK
7000 Tipe: S-KETD, P-PI-ANT PART, K-NECTAR, B-ROOTSTOCK
7000 AVAILABILITY EST-FLARLY SUMMER FRUITS, FF-VALL TRUITS, WAY-PURISSENIT WANTER FRUITS, 525-SPRING/SSUMMER SECON.
FS-AFALL CETOS

INDICATES SIGNIFICANT CONTRIBUTION

### TREE LEGEND

| A = ASH     | B= BEECH     | BR = BIRCH   |
|-------------|--------------|--------------|
| CH = CHERRY | E = ELM      | H = HICKORY  |
| L = LOCUST  | M = MAPLE    | MU= MULBERRY |
| O = OAK     | S = SYCAMORE | T = TULIP    |

WORK LOCATION MAP SCALE:1" = 300"



DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 Fax: 203 366 0067 wkassociates.net

DRAWING NAME:

DARIEN HIGH SCHOOL WETLAND **CREATION AND ENHANCEMENT:** SITE NOTES

DRAWING NUMBER: 28 OF 42

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

### HABITAT MANAGEMENT SPECIFICATIONS

- WEILAND CREATION AND ENMANCEMENT OBJECTIVES:

  9) EXPANDING AND DYPERSIFYING HABITAT TYPES THROUGH THE CREATION OF EMERGENY WEILAND, ILL BE ALLOWED TO METAND. THE LABOL SILCE SISSONAL MODILAND WEILAND THE GRACIAN SILCE SISSONAL MODILAND WEILAND THE GRACIAND TO METAND. THE EMALY SILCE SISSONAL MODILAND WEILAND THE GRACIAND TO METAND. THE WILL SILCE SISSONAL MODILAND WEILAND THE GRACIAND THE WILL SILCE SISSONAL MODILAND TO SEA PERMANDENT THE WILL SILCE SISSONAL MODILAND TO SEA PERMANDENT TO METAND. SOURCE SISSONAL MODILAND TO SEA PERMANDENT TO SEA PERMANDENT TO PROBLEM TO THE WILL AND FLORA. THIS WILL BE ACHEVED THROUGH THE COMPLETION OF ITEM 1.A MOTED ABOVE AND BY INSTALLING AND MAINTAINING A DEVERSITY OF WEILAND FLORA. THIS WILL BE ACHEVED THROUGH THE COMPLETION OF ITEM 1.A MOTED ABOVE AND BY INSTALLING AND MAINTAINING OF DEVERSITY OF WEILAND FAUNA. THIS WILL BE ACHEVED THROUGH THE COMPLETION OF ITEM 1.A MODILAND BAT THE SIGNAL SIGNAL

- I HABITAT ENHANCEMENT SUCCESS STANDARDS

  () THE MARTAT ENHANCEMENT ACTIVITIES WILL BE CONSIDERED A SUCCESS IF THE
  FOLLOWING STANDARDS ARE MET AT THE END OF THE PROJECT MONITORING PERIOD:

  () PROPOSED WETLAND HYDROLOGIC OBJECTIVES ARE MET.

  (II) PROPOSED VECTLAND HYDROLOGIC OBJECTIVES ARE MET.

  (III) BERGICENT MARSH HABITATS SHALL HAWE AT LESS 80 PERCENT ARRIAL COVERAGE
  PROSPOSITION OF THE ARRIAL COVERAGE

  (V) COMMON RED. PURPLE LOSSESTRIFE, RUSSIAN JAND AUTUMN OLDE, BUCKTHORN,
  APANESE KNOTYWEED ANDOR MULTIPORA POSE PLANTS WITHIN THE HENTAT
  ENHANCEMENT AREA ARE SENIO CONTROLLED.

  ALL SLOPES, SOLS, SUBSTRATES, AND CONSTRUCTED FEATURES WITHIN AND
  ADJACEST TO THE HABITAT ENHANCEMENT AREA ARE STABLE.

WORK DESCRIPTION
PROVIDE ALL MEANS AND MATERIALS NECESSARY FOR SUPPLYING, INSTALLING AND
AMMITARIMON THE TYPE AND SIZE OF THE PLANT MATERIAL AND OTHER IMPROVEMENTS
NOTICE IN THE HABITAT EMUNICAMENT PLANTING THAN AND FOR ACHIEVING THE
HABITAT BHAMACREMENT OBJECTIVES AND SIZE OCCESS STANDARDS.

- 4) QUALITY ASSURANCE

  9) A METLAND SCENTIS SHALL BE ONSITE TO MONITOR CONSTRUCTION, MONITORING AND MAINTENANCE OF THE HASTAT DUNANCEMENT ACTIVITIES TO ENSURE COMPLIANCE WITH THE DESIGN AND SECTICATIONS AND TO MAKE ADJUSTMENTS WHEN APPROPRIATE TO MEST DUNANCEMENT OBLICTURES.

  1) ALL WORK SHALL BE FERFORMED BY PERSONNEL WITH WETLAND HABITAT RESTORATION AND DUNANCEMENT PROJECT EXPENSELS, UNDER THE DIRECTION OF A SOLLED FOREMAN WITH A MINIMUM THREE YEARS EXPENSENCE.

  1) THE PLANNING, ACCOMPLISHING AND MAINTAINING OF THE HABITAT ENHANCEMENT ACTIVITIES ARE THE RESPONSIBILITY OF THE TOWN OF DARREN.

  1) ALL HEAVY EQUIPMENT FOREAGE, REPULLING AND MORE MAINTEMANCE IS TO TAKE PLACE OUTSIDE OF THE REGULATED WETLANDS AND WATERCOURSES.

  9) INFOSE OF EXCESS MATERIAL AND DEBIS RESULTING FROM THE PROPOSED HABITAT ENHANCEMENT WORK OFF-STEL LEAVE WORK AREA CLEAN AND NEAT UPON COMMETTION OF THE WORK, REPURLAND HOMAGED DONE TO THE EDISTING SITE IMPROVEMENT AS A RESULT OF THE WORK.
- 5) PRODUCT AND EXECUTION DATA a) SOIL
  - IL
    TOPSOIL SHALL CONSIST OF A MIXTURE OF EQUAL VOLUMES OF ORGANIC AND
    MINERAL MATERIALS. WELL DECOMPOSED LEAF-COMPOST OR EQUAL, (NOT
    INCLUDINC, PEAT SHALL BE USED FOR THE ORGANIC MATERIAL, WHICH SHALL BE
    FREE OF WEED SEEDS AND PHYSICAL (E. G., PLASTIC), AND CHEMICAL
    CONTAMINANTS. THE ORGANIC MATTER CONTENT SHOULD BE 15 TO 25 PERCENT
    BY DRY WEIGHT.

  - CONTAMEMENTS. THE ORGANIC MATTER CONTENT SHOULD BE 15 TO 25 PERCENT BY DRY WIGHT.

    19 PRY WIGHT.

    110 PROVIDE DOCUMENTATION BEGARDING THE SOURCE OF TOPSOIL AND THE POTENTIAL FOR THE PRESENCE OF IMANON SERIES. SEEDS.

    111 TESTING OF THE TOPSOIL BY AN ACCEPTABLE LABORATORY PRIOR TO PLANTING WILL BE THE RESPONABLITY OF THE SITE CONTRACTOR. APPLICATIONS OF ORGANIC SOIL AMEMBERS HAVE BE ROQUIRED IN ACCORDANCE WITH THE "STANDARDS FOR ORGANIC LAND CLAPE CLOSE SOIL BEBLE BY THE NORTHEAST ORGANIC FARMING ASSOCIATION TO ACHIEVE DESIRED SOIL HEALTH AND FERTILITY.

    19. SPEAD TOPSOIL TO A DEPTIL REQUIRED TO A CHIEVE THE MICHOTOPOORGAPHIC VARIATION AND TO MEET THICKNESS, GRADES, AND ELEVATIONS SHOWN ON THE PLAN AND DETAILS.

    COARSE WOODLY DEBTIS.

    19. COARSE WOODLY DEBTIS (CWD) SHALL INCLIDE SUCH MARTERIALS AS LOGS, STUARS, SMALLER BRANCHES, AND STANDING SHAGS FROM NATIVE SPECIES. CWD SHALL BE MY VARIOUS STAGES OF DECAY AND SALVAGED FROM THE CRISTING SITE WOODLAND.
- MODILAID. TANIOUS STACES OF DECAT AND SALTAGED FROM THE EAST AND STACES OF DECAT.

  BHANCEMENT AREA.

  YESTATION

  GENERAL

  (1) ALL VECETATION USED FOR PERMANENT PLANTINGS SHALL BE GROWN AND PROPAGATED FROM HATTHE PLANTS GROWNEN HATDRALLY WITHIN 200 MILES OF THE 9TS, RON INVASIVE ANNUALS MAY BE USED FOR TEMPORARY PLANTINGS IPPOPROVED BY THE OWNER'S REPRESENTATIVE AND STACES OF THE 9TS AND STACES

- (4) ALL PLANT MATERIALS SHALL BE INSPECTED FOR DEFECTS, DISEASE, DAMAGE OR INSECTS GEFORE PLANTING. ANY SUBSTANDARD PLANTS SHALL BE RETURNED TO, AND REPLACE BY THE CONTRACTOR. ACCEPTABLE PLANTINGS ARE TO BE PLANTING PART THE PROPERTY OF THE PLANTING PLANTING PART OF THE PROPERTY OF THE PLANTING PLANTING PART OF THE PLANTING PLANTING PART OF THE PLANTING PLANTING PART OF THE PLANT MATERIALS ARE SUBJECT TO REPLACEMENT BY SUBTREME. MINISTERY CONTRACTOR, AND APPORBIATE REGULATORY ADENDES NEEDS, MINISTERY (CONTRACTOR), AND APPORBIATE PROBLEMENT OF FIELD ADJUSTMENTS IN RESPONSE TO SITE CONTROL ORS. THE PLANTING PART OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PART NAM SECURIOD FOR THE PLANTS AND SECURIOD FOR THE PLANTS AND SECURIOD FOR THE CANTING PART OF THE PLANT SHALL CONFIDENT OF DESIGNATIONS SPECIFIED IN THE PLANT LIST. USE PLANTS LANGUR THAN SECURIOD IN PROPERTY OF THE OWNERS.

  SOUND ON THE PROPERTY OWNER SHALL BE RELOCATED AT NO THE PROPERTY OWNER PROPER

- DOG

  19 PLOE THE PLANT IN THE CENTER OF THE RIT, HUMMOCK OR SPACED IN BEDS
  AS INDICATED ON THE BRAWNINGS. SET THE PLANT PLUMS AND ADJUST ITS
  HEIGHT TO ACHIEVE THE ELEVATION SHOWN ON THE PRAWNINGS SET PLACING
  PEEPARED SOIL BEHEATH THE ROOTBALL BURLAP, RODE, WHER BASKETS OR
  OTHER MATERIAL SHALL BE CUT AND REMOVED FROM THE TOPS OF THE
  ROOTBALL AND NOT LEFT IN THE PLANTING OFF. BACKFILL AROUND THE
  ROOTBALL WITH PREPARED PLANTING SOIL HIPSORALLY COMPACT AND WATER
  THE PREPARED PLANTING SOIL TO FILL VOIDS AND TO FIRMLY SECURE
  ROOTBALL.
- ROOTBALL WITH PREPARED PLANTING SUIL UNIL UNIL WITH PREPARED PLANTING SOIL TO FILL VOIS AND TO FIRMLY SECURE ROOTBALL.

  1) FORM A "SAULCER" AT THE SURFACE OF THE PLANTING PT, HUMMOCK OR BED WITH TOPSOIL. SHAPE THE SAUCER TO THE DIMENSIONS INDICATED ON THE DRAWNINGS. SHAPE THE SAUCER TO THE DIMENSIONS INDICATED ON THE DRAWNINGS. SHAPE THE PREMIETER OF THE SAUCERS AND BEST TO FORM A SMOOTH AND UNFORM TRANSITION TO FIRST GRAZE.

  SMOOTH AND UNFORM TRANSITION TO FIRST GRAZE.

  SMOOTH AND UNFORM TRANSITION TO FIRST GRAZE.

  AND STANS. THE WIRES TO SECURE AND THE SECURED MULCH OWNER AND STANS. THE WIRES TO SECURED WHIT THE SECURED MULCH DEPTH. DIMENSIONS, AND AREAS INDICATED ON THE DRAWNING.

  (6) PRUNUE HIS ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMBIN STANDARDS TO REMOVE DEAD AND DISEASED PORTION OF THE PLANT.

  7 ALL WIRE FLAGS USED TO DESTITY F PLANT LOCATIONS SHALL BE REMOVED ANTER PLANT INTRODUCTION AND CONFINANTION OF THE PLANT.

  7 ALL WIRE FLAGS USED TO DESTITY F PLANT LOCATIONS SHALL BE REMOVED ANTER PLANT INTRODUCTION AND CONFINANTION OF THE PLANT.

  10) SEED WHEN SOLS ARE NOT INVIDIATED. DO NOT ALLOW INMIDIATION TO OCCUR WINTIL THE TEGET OF SEEDED FANTS EXCEED INMIDIATION TO OCCUR WINTIL THE SEEDE AND THEN PLANT ISST.

  13) SURFACE-SOW SEED AND THEN PLAYS SEED INTO CONTACT WITH THE TOPSOIL.

  4) APPLY SEED AT BOTTES AS SECCITED ON THE PLANTING SEED ARREAS TO AMENIUM DETTH OT 3".

  4) IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEEDED SURFACE WITH STEPLIE STRAW AT A PATE OF 1.5 TO 3 TONISTACRE. SPREAD BULCH BY HAND OR ONSK
- STRAW AT A RATE OF 1.5 TO 5 (UNDTACKE, SPREAD MOLICED) FOUND ON A MARROW SET STRAIGHT.

  (7) LIMIT OF SEEDING IS SUBJECT TO FIELD ADJUSTMENT IN RESPONSE TO SITE CONDITIONS. THESE ADJUSTMENT'S SHALL BE AT THE DISCRETION OF THE PROJECT WETLAND SCIENTIST.

- AMINTENANCE

  MINITENANCE

  MINITENANCE IS TO BEGIN IMMEDIATELY AFTER PLANTING HAS BEEN COMPLETED.

  MINITENANCE IS TO BEGIN IMMEDIATELY AFTER PLANTING HAS BEEN COMPLETED.

  THE MAINTENANCE PERIOD SHALL BE EXTENDED AT NO ADDITIONAL COST TO THE PROPERTY OWNER UNIT, PREVIOUS PRINCE US IT FIRMS HAVE BEEN CORRECTED, AT WHICH THAE THE FINAL INSPECTION WILL BE MADE.

  ALL PLANT MATERIAL AFTER HAS THE WEEDED, AND SOIL AMENOMENTS ADOED AS REQUIRED TO KEEP FLANT MATERIAL IN A HEALTHY GROWING CONDITION.

  PROTECT ALL PLANTERS BEAS AGAINST OWNER, INCLUDING PROSOGN, WIDLIFF, AND TRESPASSING BY PROVIDING AND MAINTAINING PROPER SAFEGLARDS.

  ALL PLANT STOCK SHALL BE WATERED UPON CONFLICTION OF PLANTING.

  PROSENT STOCK SHALL BE WATERED UPON CONFLICTION OF PLANTING.

  PROSENT SOIL OF THE WATERED UPON CONFLICTION OF PLANTING.

  PROSENT SOIL OF THE WATERED UPON CONFLICTION PLANTING. PROGRAM OF THE SECOND GROWING SEASON UNITES. SPECIFIED OTHERWISE.

  PROSENT SECOND GROWING SEASON UNITES. SPECIFIED OTHERWISE.

  PROSENT SECTIOL PLANTS TO PROPER GRADE AND POSITION. ADJUST OR REPLACE STAKES, GUYING MATERIALS, TO SECURELY MACKING MAD PROTECT.

  AT THE DED OF THE MAINTENANCE PERIOD, ALL PLANT MATERIAL, SHALL BE IN A HEALTHY GROWING CONDITION AS PRELIFIED TO CONDITIONS WITHIN THE CONTROL OF THE CONTRACTOR

  FOR CONTRACTOR

  FOR CONTRACTOR

  FOR THE CONTRACTOR

  FOR THE SECURIOR OF THE PROJECT.

  IN MASSIVE SPECIES FOR A MINIMUM OF FIVE YEARS FOLLOWING THE CONSTRUCTION PHASE OF THE PROJECT.

  IN MASSIVE SPECIES AND CALL THE SECURIOR OF THE SECURIOR AND MAINTENANCE WILL INCLUDE:

  ON THE SEARCH SHAPE AND ABUNDANCE OF INVASIVE PLANTS.

- 12) FIELD MARK PMA PLAGGING OR OTHER MEMAS, DESIRABLE VEGETATION TO BEHALM AND INVASIVE UNDESIRABLE, PLANTS TO BE CONTROLLED.

  3) CONTROL INVASIVES PLANTS WA PHYSICAL OR CREWICAL METHODS. THE METHOD TYPE WILL BE DETERMINED BY THE WETLAND SCIENTIST BASED ON THE TYPE AND BEHNOMACE OF INVASIVE PLANTS AND THE TYPE AND ARROBANCE OF ADJACENT DESIRABLE PLANTS. THE PLANT CONSERVATION ALLANCE'S ALEN PLANT WORKING GROUP DAYLTS/ALDEUFACTMAIN, HTM.) REGARDING THE CONTROL OF INVASIVE PLANT SPECIES WILL BE CONSULTED TO ASSIST WITH SPECIFING AN APPROPRIATE METHODOLOGY. COMPLETE PHYSICAL PLANT CONTROL ACTIVITIES BY HAND OR VIA HAND TOOLS IE G., WEDW MEMCH. BRUSH CUTTENJ. CHEWICAL METHODS WILL PRIMARILY INCLUDE THE USE OF GLYPHOSPHATE ASSIST PHINTED SIN AND APPLICABLES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE LAWS.

- GLYPHOSPHATE-BASED HERBICIDES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE LAWS.

  6) MONITORING AND REPORTING.

  9) MONITOR THE CONDITIONS OF THE HABITAT ENHANCEMENT IMPROVEMENTS FOR FIVE YEARS. THE TIRST YEAR OF ANDITRONING SHALL BEGIN FOLLOWING THE PRIST FULL YEARS. THE TIRST YEAR OF ANDITRONING SHALL BEGIN FOLLOWING THE PRIST FULL (). THE STATE OF THE TIRST SHALL REPORT AND THE ANDITRONING ACTIVITIES. AT LEAST TWICE FACTH GROWING AND AND THE ANDITRONING SEPORT TO THE REGULATORY AGENCIES BY DECEMBER STATE OF EACH MONITORING FEPORT TO THE REGULATORY AGENCIES BY DECEMBER STATE OF EACH MONITORING SEPORT. TO THE REGULATORY AGENCIES BY DECEMBER STATE OF EACH MONITORING SEPORT. TO THE REGULATORY AGENCIES BY DECEMBER STATE OF EACH MONITORING SEPORT.

  9) THE MONITORING REPORTS SHALL BE CONCISE (MAMMUM TO PAGES) AND EFFECTIVELY PROVIDE THE INFORMATION NECESSARY TO ASSESS THE STATUS OF THE COMPRISANORY AUTIGATION PRODUCT. THE REPORT SHALL BE CONCISE (MAMMUM TO PAGES) AND EFFECTIVELY PROVIDE THE INFORMATION NECESSARY TO ASSESS THE STATUS OF THE COMPRISANORY AUTIGATION PRODUCT. THE REPORT SHALL BE CONCISE (MAMMUM TO PAGES) AND EFFECTIVELY PROVIDE THE INFORMATION NECESSARY THE MABITAT SHAMCEMENT PLANTS ON THE CONFINENCIAL SHAPPORT OF THE PROVIDED.

  10) SUMMARY DATA AND HOPTOS TO SUBSTANTIATE THE NOTED CONCLUSIONS. IN AMPS SHOWING LOCATION OF PHOTOGRAPHIC REPERVED POINTS, INDIVIDUAL SHAPPORT OF THE PROVIDED.

  10) SUMMARY DATA AND HOPTOS TO SUBSTANTIATE THE NOTED CONCLUSIONS. SHAPPORT OF THE PROVIDE TO THE PROVIDED SHAPPORT OF THE PROVIDED SHAPPORT OF THE SHAPPORT OF PLANT OF PLANT OF PLANT OF PLANT OF THE SHAPPORT OF PLANT

  - THAT COMPLETED THE ANNUAL MONITUMING NEUVITS. IT IT ASSESSMENT ALL VALISHALL:

    § SUMMARIZE THE ORIGINAL AND MODIFIED HABITAT ENHANCEMENT ORJECTIVES AND DISCUSS THE LEVEL OF ATTAINMENT OF THESE ORJECTIVES.

    §§ DESCRIES SIGNIFICANT PROBLEMS AND SOLITIONS DURING CONSTRUCTION AND MAINTENANCE (MONITORING) OF THE HABITAT ENHANCEMENT AGEA.

    §§ DESTRIP REGULATORY ACENCY PROCEDURES OR POLICIES THAT ENCUMBERED IMPLEMENTATION OF THE HABITAT ENHANCEMENT PLAN.

    § RECOMMEND MEASURES TO IMPROVE THE EFFICIENCY, REDUCE THE COST, OR IMPROVE THE EFFECTIVES OF SIMILAR PROJECTS IN THE FUTURE.

DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 Fax: 203 366 0067 wkassociates.net

DRAWING NAME:

DARIEN HIGH SCHOOL WETLAND CREATION AND ENHANCEMENT: **SPECIFICATIONS** 

DRAWING NUMBER: 29 OF 42

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

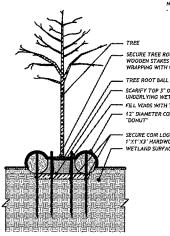
STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

# WETLAND TREE PLANTING DETAIL

NOT TO SCALE

### UPLAND TREE PLANTING DETAIL

NOT TO SCALE

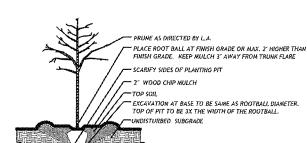


NOTES: 5-STAKES TOTAL PER TREE. 3 STAKES ADJACENT TO TREE ROOTBALL AND 2-STAKES THROUGH THE COIR LOG

SECURE TREE ROOT-MASS TO WOODEN STAKES BY WRAPPING WITH COIR TWINE

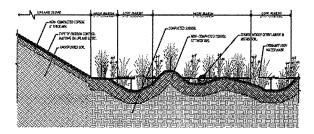
SCARIFY TOP 3" OF UNDERLYING WETLAND SOIL FILL VOIDS WITH TOPSOIL 12" DIAMETER COIR LOG "DONUT"

ECURE COIR LOG WITH ^X1"X3" HARDWOOD STAKE VETLAND SURFACE GRADE



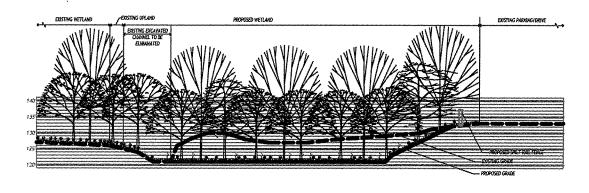
### TYPICAL CONSTRUCTED WETLAND SECTION

NOT TO SCALE



#### SECTION A-A1

1" = 30" - 0"



DRAWING PREPARED BY:

# WILLIAM KENNY **ASSOCIATES LLC**

SOIL SCIENCE ECOLOGICAL SERVICES
LAND USE PLANNING
LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 Fax: 203 366 0067 wkassociates.net

DRAWING NAME:

DARIEN HIGH SCHOOL WETLAND **CREATION AND ENHANCEMENT:** DETAILS & SPECS.

DRAWING NUMBER: 30 OF 42

PROJECT NAME:

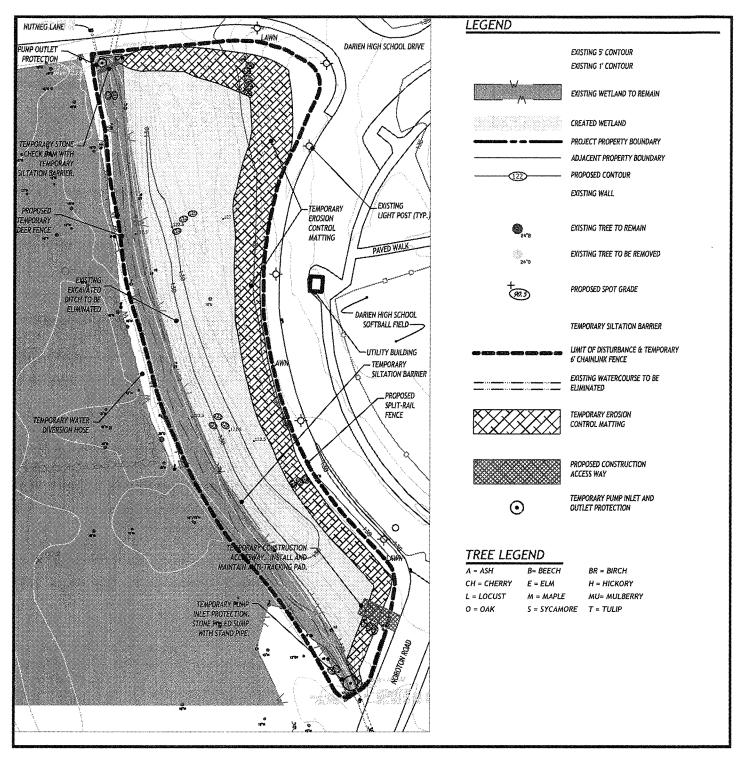
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

DARIEN HIGH SCHOOL WETLAND CREATION AND ENHANCEMENT: EROSION & SEDIMENT CONTROL

DRAWING NUMBER: 31 OF 42



SCALE:

0' 30' 60' 120'

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

#### GENERAL NOTES

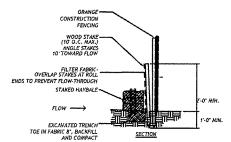
- ALL WETLAND AND TREE INFORMATION FOR DARIEN HIGH SCHOOL TAKEN FROM A SURVEY
  PREPARED BY WILLIAM W. SEYMOUR & ASSOCIATES, P.C., 2009 SITE OBSERVATIONS ARE FROM
  WILLIAM KENNY ASSOCIATES LLC AND TOPOGRAPIC INFORMATION IS FROM JAMES W. DEWALL &
  COMPANY; ENTITLED "TOPOGRAPHIC MAP OF DARIEN, CT"; AND DATED JULY 20, 2008.
- 2. WORK WITHIN AND ADJACENT TO WETLANDS OR WATERCOURSES SHALL BE DONE DURING PERIODS OF LOW FLOW, WHENEVER POSSIBLE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SECURE THE WORK SITE BEFORE A MAJOR STORM EVENT, AS DEFINED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WEATHER SERVICE. CONSTRUCTION STRUCTURES, MATERIALS AND EQUIPMENT SHALL BE ANCHORED OR RESTRAINED TO PREVENT DISPLACEMENT OR FLOTATION OR WILL BE REMOVED FROM THE WORK AREA (TO AREAS LOCATED ABOVE ELEVATION 49) BEFORE A MAJOR STORM EVENT.
- 3. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY, IT IS NOT FOR CONSTRUCTION PURPOSES.
- 4. EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, A CONSTRUCTION SEQUENCING PLAN AND A WATER HANDLING PLAN MUST BE SUBMITTED TO THE PROJECT WETLAND SCIENTIST IN WRITING FOR APPROVAL.
- 6. A WRITTEN PROPOSAL FOR SPECIFIC METHODS AND DEVICES TO BE USED FOR DEWATERING ACTIVITIES MUST BE SUBMITTED TO THE PROJECT WETLAND SCIENTIST FOR APPROVAL BEFORE THOSE OPERATIONS CAN BEGIN. THE WETLAND SCIENTIST MAY CEASE DEWATERING OPERATIONS IF EXCESSIVE TURBIDITY BECOMES A PROBLEM.
- UNCONFINED WORK WITHIN STONY BROOK OR OTHER WATERWAY SHALL BE RESTRICTED TO THE TIME PERIOD OF JUNE 1 TO SEPTEMBER 30.
- 8. WORK WITHIN AND ADJACENT TO WETLANDS OR WATERCOURSES SHALL BE DONE DURING PERIODS OF LOW FLOW. WHENEVER POSSIBLE.
- WITHIN 7 DAYS OF SETTING THE APPROXIMATE FINAL GRADE ON SLOPES, SEEDING WILL BE
  ACCOMPLISHED AS DETERMINED BY THE PROJECT WETLAND SCIENTIST. IF THE GRADING
  OPERATION WILL BE SUSPENDED FOR 30 OR MORE CONSECUTIVE DAYS, SEEDING OR SOME FORM OF
  SOIL STABILIZATION WILL BE REQUIRED.

#### PROJECT SEQUENCE

- . INSTALL PERIMETER SECURITY FENCE AS SHOWN ON PLAN.
- INSTALL TEMPORARY SILTATION BARRIER AS SHOWN ON THE PLAN IMMEDIATELY EAST OF EXISTING WETLAND/ WATERCOURSE.
- 3. INSTALL STABILIZED CONSTRUCTION ENTRANCE ANTI TRACKING PAD.
- 4. OBTAIN TOWN APPROVAL OF INSTALLATED SEDIMENT AND EROSION CONTROLS.
- 5. MARK AND CUT TREES TO BE REMOVED. LEAVE ROOT SYTEMS IN PLACE.
- GRUB/REMOVE VEGETATION FROM WORK AREA LOCATED EAST OF EXISTING WATERCOURSE/WETLAND AND INSTALLED TEMPORARY SILTATION BARRIER.
- EXCAVATE AND GRADE PROPOSED WETLAND CREATION AREA LOCATED EAST OF THE EXISTING WATERCOURSE.
- 8. ESTABLISH TEMPORARY WATER DIVERSION AS SHOWN ON PLAN. CONTINUE DIVERSION AS NEEDED UNTIL CONSTRUCTION AREA IS PERMANENTLY STABILIZED.
- REMOVE TEMPORARY SILTATION BARRIER AS SHOWN ON THE PLAN IMMEDIATELY EAST OF EXISTING WETLAND/ WATERCOURSE.
- 10. GRADE PROPOSED WETLAND CREATION AREA LOCATED IN THE AREA OF THE EXISTING
- 11. PLACE TOPSOIL AND THEN FINISH GRADE THE SOIL SURFACE.
- 12. INSTALL VEGETATION AND OTHER HABITAT FEATURES.
- 13. ALLOW SOWN SEED TO GERMINATE.
- 14. DISCONTINUE WATER DIVERSION AND ALLOW SURFACE WATER TO FLOW THROUGH THE NEWLY CREATED WETLAND.
- 15. FOLLOWING SITE STABILIZATION, REMOVE SEDIMENTATION CONTROLS.
- MAINTAIN PERIMETER SECURITY FENCING AS NEEDED TO PROTECT INSTALLED PLANTINGS AND OTHER IMPROVEMENTS FROM HUMAN OR WILDLIFE DAMAGE.

#### SILTATION BARRIER DETAIL

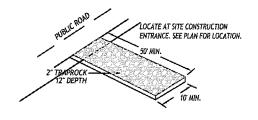
NOT TO SCALE



- 1. INSPECT BARRIER AFTER EACH STORM EVENTAND DAILY DURING PROLONGED RAINFALL.
- 2. REMOVE SEDIMENT WHEN IT REACHES APPROXIMATELY ONE-HALF THE BARRIER HEIGHT.
  3. HAYBALES MUST BE TIGHTLY ABUTTING WITH NO GAPS AND STAKED IN PLACE.

#### ANTI- TRACKING PAD DETAIL

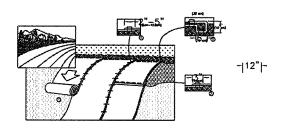
NOT TO SCALE



EFFECTED PORTIONS OF OFFSITE ROADS MUST BE KEPT CLEAN.
ALL SEDIMENT DROPPED OR TRACKED ONTO ROADWAYS IS TO BE
REMOVED IMMEDIATELY.

#### TEMPORARY EROSION CONTROL MATTING

NOT TO SCALE



- MAT SHALL CONSIST OF ULTRAVIOLET LIGHT RESISTANT POLYMER OR SYNTHETIC FIBERS
  MECHANICALLY, STRUCTURALLY, AND/OR CHEMICALLY BOUND TOGETHER FOR A CONTINUOS
  MATRIX OF CONSISTENT THICKNESS.
- MAT SHALL CONTAIN NO CONTAMINANT THAT POLLUTE THE AIR OR WATER OF THE STATE WHEN PROPERLY INSTALLED AND BE FREE OF ANY SUBSTANCE TOXIC TO PLANT GROWTH AND UNPROTECTED HUMAN SKIN OR WHICH INTERFERES WITH SEED GERMINATION.

DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

DARIEN HIGH SCHOOL WETLAND CREATION AND ENHANCEMENT: EROSION & SEDIMENT CONTROL NOTES & DETAILS

DRAWING NUMBER: 32 OF 42

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

### **GENERAL NOTES**

- 1. ALL EXISTING CONDITIONS INFORMATION FOR BAKER PARK TAKEN FROM A SURVEY PREPARED BY WILLIAM W. SEYMOUR & ASSOCIATES, P.C.; ENTITLED "TOPOGRAPHIC SURVEY"; AND DATED NOVEMBER 12, 2008.
- 2. UNLESS OTHERWISE NOTED (FOR DARIEN HIGH SCHOOL) EXISTING STRUCTURES AND PAVEMENTS TAKEN FROM A SURVEY PREPARED BY JAMES W. DEWALL & COMPANY; ENTITLED "TOPOGRAPHIC MAP OF DARIEN, CT"; AND DATED JULY 20, 2008. EXISTING TREES, FENCES, WALLS, SANITARY SEWER LINE, WETLAND BOUNDARY AND SPOT GRADE ELEVATIONS PROVIDED BY WILLIAM SEYMOUR ASSOCIATES.
- 3. UNLESS OTHERWISE NOTED (FOR STONY BROOK STREAM CHANNEL AND BANK IMPROVEMENTS) EXISTING STRUCTURES AND PAYEMENTS TAKEN FROM A SURVEY PREPARED BY JAMES W.

  DEWALL & COMPANY; ENTITLED "TOPOGRAPHIC MAP OF DARIEN, CT"; AND DATED JULY 20, 2008. EXISTING TREES, FENCE, WALLS, SANITARY SEWER LINE, WETLAND BOUNDARY AND SPOT
  GRADE ELEVATIONS PROVIDED BY DEWBERRY, INC
- 4. MAPPING FOR THE MAPLE STREET & RELIHAN ROAD CHANNEL IMPROVEMENTS WAS COMPILED FROM AERIAL TOPOGRAPHIC MAPS PREPARED BY GOLDEN AERIAL SURVEYS., 141 MT. PLEASANT ROAD, PO BOX 747, NEWTOWN CT 06470 AND SUPPLEMENTED BY OTHER MAPS ON FILE WITH THE TOWN OF DARIEN AND GROUND SURVEY BY WILLIAM W. SEYMOUR & ASSOCIATES, PC, 170 NOROTON AVENUE, DARIEN, CT 06820.
- 5. NO WETLAND OR WATERCOURSE ACTIVITIES ARE PROPOSED AT THE HEIGHTS ROAD RAILROAD WORK AREA.
- 6. SEE DRAWING 19 FOR WETLAND AND WATERCOURSE ACTIVITIES ACREAGE.
- 7. NO WETLAND OR WATERCOURSE ACTIVITIES ARE PROPOSED AT THE HEIGHTS ROAD RAILROAD AREA.
- 8. THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. IT IS NOT FOR CONSTRUCTION PURPOSES.

### **LEGEND**



EXISTING WATERCOURSE AREA TO REMAIN



EXISTING WATERCOURSE AREA TO BE ELIMINATED AND THEN CONVERTED TO UPLAND



EXISTING WATERCOURSE OR WETLAND TO BE ENHANCED



EXISTING WATERCOURSE AREA TO BE ELIMINATED AND RECREATED



NEW WETLAND



NEW WATERCOURSE



EXISTING WETLAND AREA TO REMAIN



EXISTING WETLAND AREA TO BE ELIMINATED AND THEN CONVERTED TO UPLAND



EXISTING WETLAND AREA TO BE ELIMINATED AND RECREATED



EXISTING WETLAND TO BE ELIMINATED & NEW STORMWATER WETLAND CREATED



NEW STORMWATER WETLAND



NEW STREAM BANK ENHANCEMENT

### WETLAND AND WATERCOURSE ACTIVITIES ACREAGE

| PROJECT WORK AREA AND<br>RESOURCE | EXISTING<br>(PRE-PROJECT<br>IMPROVEMENTS)<br>(acres) | ELIMINATED<br>(acres) | NEWLY<br>CREATED<br>(acres) | PROPOSED<br>(POST-PROJECT<br>IMPROVEMENTS)<br>(acres) | ENHANCEI<br>(acres) |
|-----------------------------------|--|-----------------------|-----------------------------|---|---------------------|
| MAPLE STREET & RELIHAN RO         | AD CHANNEL IMPRO                                     | VEMENTS               |                             |   |                     |
| WETLAND                           | 0.03   | 0.02                  | 0.00                        | 0.01  | 0.00                |
| WATERCOURSE                       | 0.06   | 0.05                  | 0.02                        | 0.03  | 0.00                |
| BAKER PARK FLOOD CONTROL          | <b>IMPROVEMENTS</b>                                  | -                     |                             |   |                     |
| WETLAND                           | 2.39   | 0.16                  | 0.04                        | 2.27  | 0.00                |
| WATERCOURSE                       | 0.22   | 0.02                  | 0.02                        | 0.21  | 0.00                |
| STORMWATER WETLAND                | 0.00   | 0.00                  | 1.62                        | 1.62  | 0.00                |
| WETLAND<br>WATERCOURSE            | 1.17<br>0.05   | 0.00<br>0.05          | 0.42<br>0.00                | 1.59<br>0.00  | 0.10<br>0.00        |
| WATERCOURSE                       | 0.05   | 0.03                  | 0.00                        | 0.00  | 0.00                |
| STONY BROOK STREAM CHANN          |  | NCEMENTS              |                             |   |                     |
| WETLAND                           | 0.00   | 0.00                  | 0.02                        | 0.02  | 0.00                |
| WATERCOURSE                       | 0.10   | 0.00                  | 0.00                        | 0.10  | 0.10                |
| STREAM BANK                       | 0.00   | 0.00                  | 0.00                        | 0.00  | 0.09                |
| TOTAL PROJECT AREA                |  |                       |                             |   |                     |
| WETLAND                           | 3.59   | 0.17                  | 0.48                        | 3.89  | 0.10                |
| WATERCOURSE                       | 0.42   | 0.12                  | 0.04                        | 0.34  | 0.10                |
| STORMWATER WETLAND                | 0.00   | 0.00                  | 1.62                        | 1.62  | 0.00                |
| STREAM BANK ENHANCEMENTS          | 0,00   | 0.00                  | 0.00                        | 0.00  | 0.09                |

DRAWING PREPARED BY:

# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

TOTAL PROJECT AREA:
WETLAND & WATERCOURSE
ACTIVITES PLAN NOTES &
LEGEND

DRAWING NUMBER: 33 OF 42

PROJECT NAME:

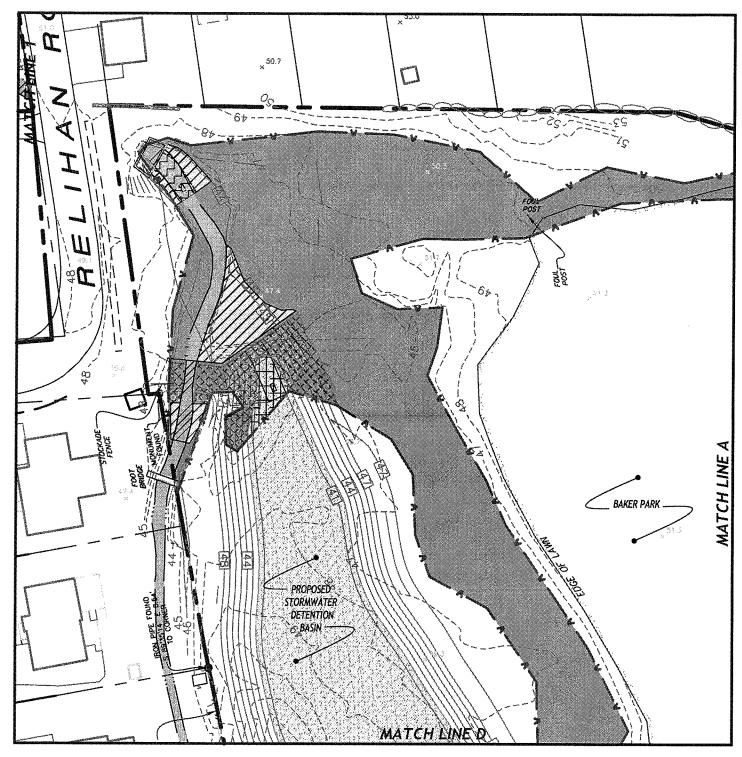
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

TOTAL PROJECT AREA: WETLAND & WATERCOURSE ACTIVITES PLAN

DRAWING NUMBER: **34 OF 42** 



SCALE:

0' 25' 50' 100'

PROJECT NAME:

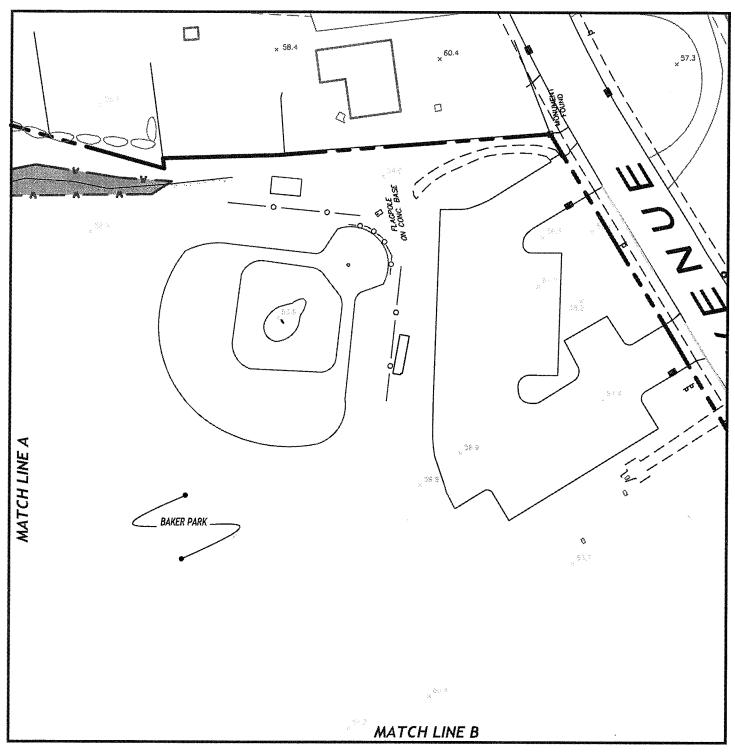
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

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SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

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TOTAL PROJECT AREA: WETLAND & WATERCOURSE ACTIVITES PLAN

DRAWING NUMBER: **35 OF 42** 



SCALE:

0' 25' 50' 100'

PROJECT NAME:

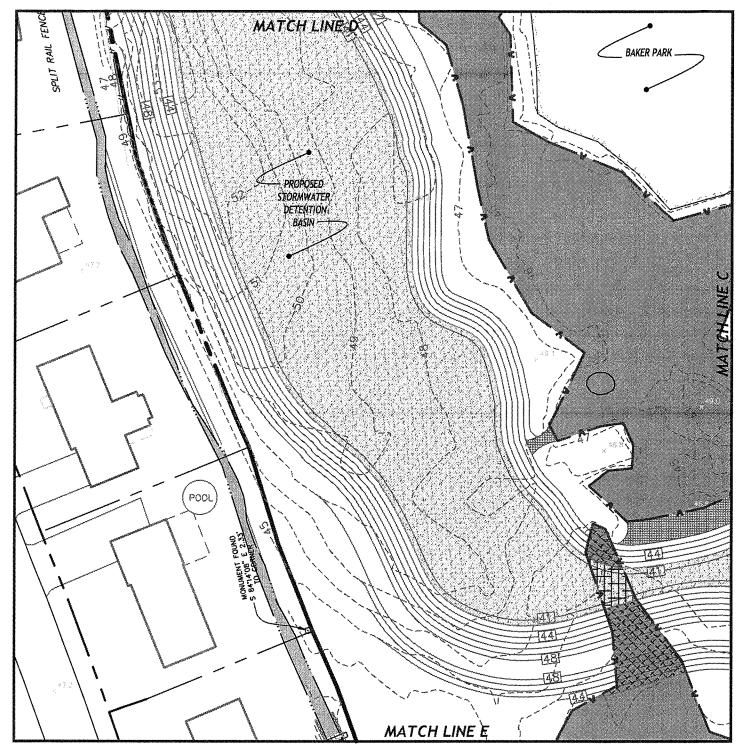
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

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SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

TOTAL PROJECT AREA: WETLAND & WATERCOURSE ACTIVITES PLAN

DRAWING NUMBER: 36 OF 42



SCALE:

0' 25' 50' 100'

PROJECT NAME:

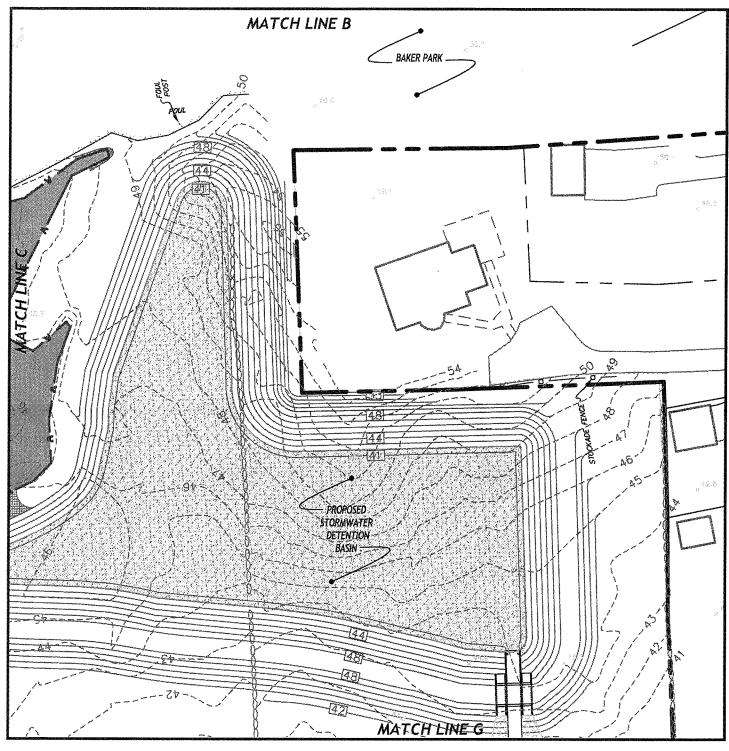
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

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# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

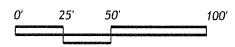
217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

TOTAL PROJECT AREA: WETLAND & WATERCOURSE ACTIVITES PLAN

DRAWING NUMBER: 37 OF 42



SCALE:



PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



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SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

TOTAL PROJECT AREA: WETLAND & WATERCOURSE ACTIVITES PLAN

DRAWING NUMBER: 38 OF 42



SCALE:

0' 25' 50' 100'

PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT



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SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

TOTAL PROJECT AREA: WETLAND & WATERCOURSE ACTIVITES PLAN

DRAWING NUMBER: 39 OF 42



SCALE:

0' 25' 50' 100'

PROJECT NAME:

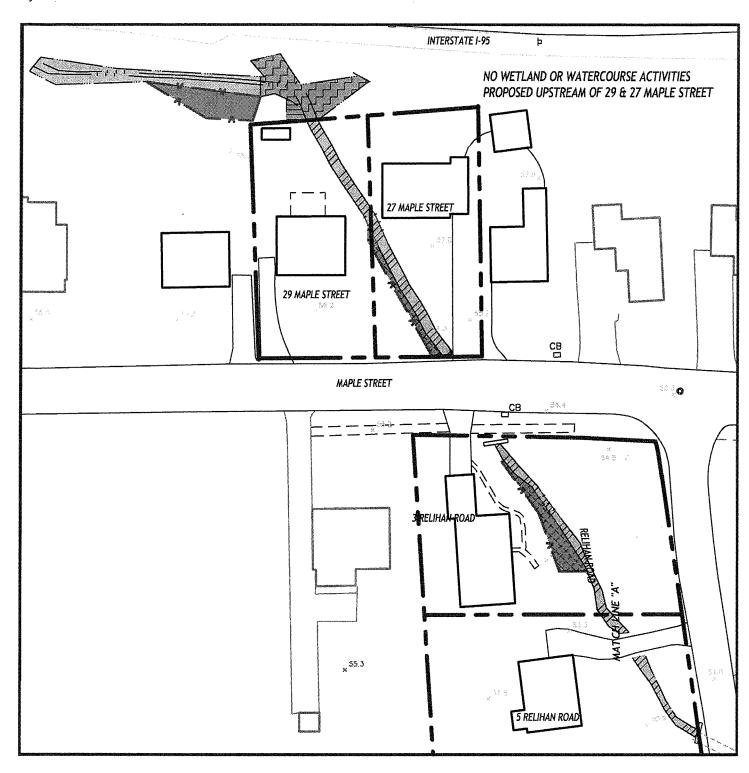
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

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ADDRESS:

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# WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

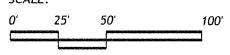
217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net DRAWING NAME:

TOTAL PROJECT AREA: WETLAND & WATERCOURSE ACTIVITES PLAN

DRAWING NUMBER: 40 OF 42



SCALE:



PROJECT NAME:

STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

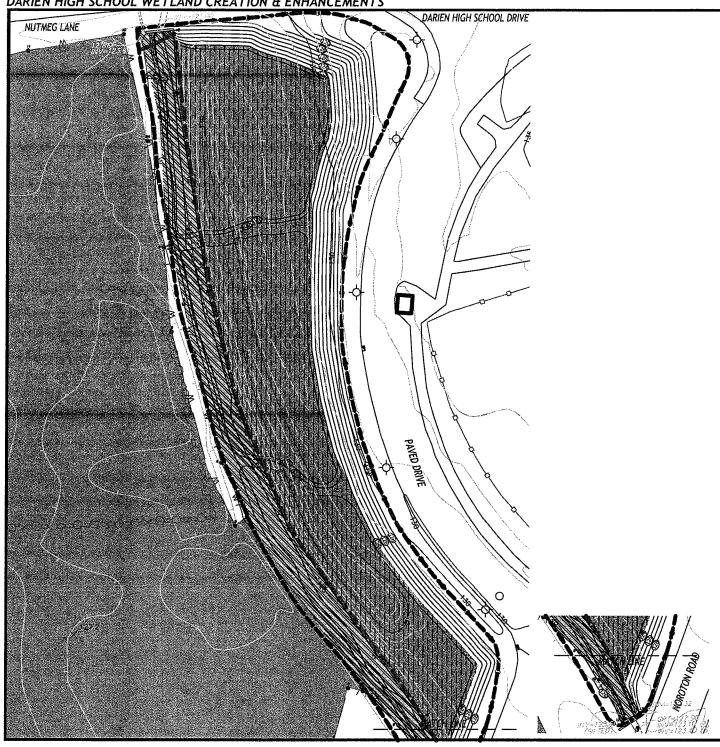
APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

STONY BROOK TRIBUTARY DARIEN, CONNECTICUT

DARIEN HIGH SCHOOL WETLAND CREATION & ENHANCEMENTS



DRAWING PREPARED BY:

# WILLIAM KENNY **ASSOCIATES LLC**

SOIL SCIENCE **ECOLOGICAL SERVICES** LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 Webb Road FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 wkassociates.net

DRAWING NAME:

TOTAL PROJECT AREA: **WETLAND & WATERCOURSE ACTIVITES PLAN** 

DRAWING NUMBER: 41 OF 42



SCALE:

25' 50' 100' PROJECT NAME:

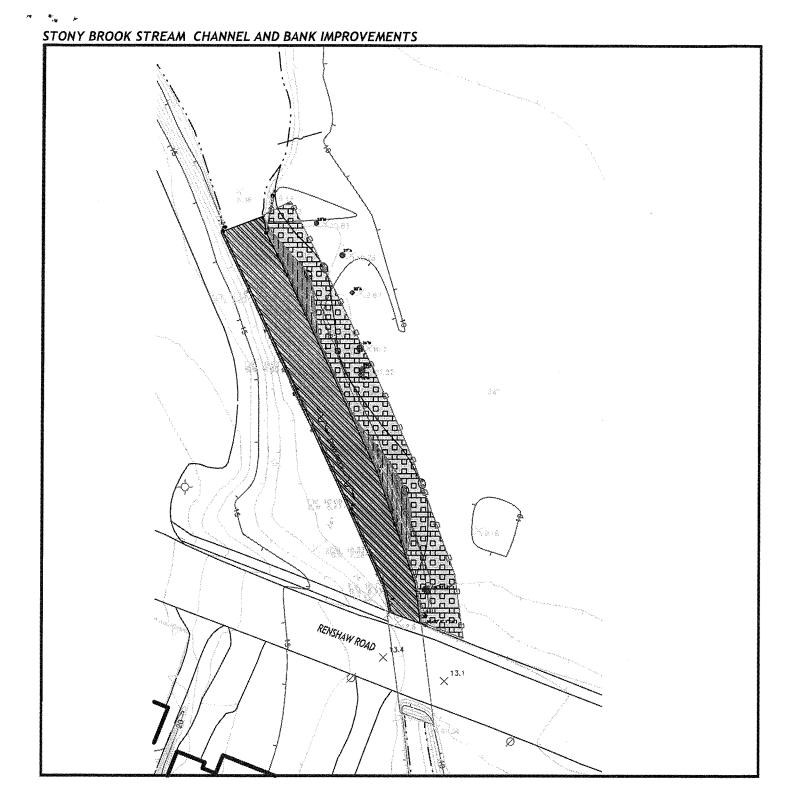
STONY BROOK TRIBUTARY FLOOD CONTROL PROJECT

APPLICANT:

TOWN OF DARIEN CONNECTICUT

ADDRESS:

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